

Lockheed Martin
Scientific Engineering Response and Analytical Services
2890 Woodbridge Avenue, Building 209 Annex
Edison, NJ 08837-3679
Telephone: 732-321-4200 Facsimile: 732-494-4021

LOCKHEED MARTIN 

DATE: October 23, 2014

TO: Gary Newhart, U.S. EPA/ERT Work Assignment Manager
David Mickunas, U.S. EPA/ERT

THROUGH: Kevin Taylor, SERAS Program Manager *dark for KT*

FROM: Amy DuBois, SERAS Task Leader *Oz*

SUBJECT: LEE'S LANE LANDFILL SITE INVESTIGATION, LOUISVILLE, KY
WORK ASSIGNMENT #SER00239 – TRIP REPORT

This trip report contains confidential information as to locations and analytical results of private properties involved in the investigation, and therefore, specific information identifying property locations and results may need to be withheld or redacted prior to release to the public.

BACKGROUND

The Environmental Protection Agency/Environmental Response Team (EPA/ERT) issued Work Assignment (WA) Number SERAS-239 to Lockheed Martin under the Scientific, Engineering, Response and Analytical Services (SERAS) contract to collect sub-slab soil gas, crawl space and ambient air samples as part of a vapor intrusion site investigation to determine whether vapors migrating from the Lee's Lane Landfill have the potential to impact residential living spaces. The Lee's Lane Landfill Site (Site) comprises 112 acres of land next to the Ohio River in Louisville, Kentucky (KY). A residential area borders the Site to the east. Previous Site investigative and clean-up activities have identified methane, benzene and other chemicals potentially migrating from the Site and affecting nearby residences.

The vapor intrusion sampling will provide data that will help EPA Region IV personnel determine if there is the potential for adverse indoor air impact associated with chemicals migrating from the landfill.

All SUMMA® canister samples were analyzed for volatile organic compounds (VOCs) and permanent (fixed) gases. The SUMMA canister sampling and analysis were conducted following EPA Compendium Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*. After analyzing for VOCs, a second analysis was performed on the samples following EPA Method 3C, *Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from Stationary Sources*. Carbon monoxide was also included in the EPA 3C analysis. Forty-seven SUMMA samples plus one trip blank were collected and analyzed.

OBSERVATIONS AND ACTIVITIES

SERAS sampling personnel mobilized to Site June 23, 2014. Twenty-four hour sub-slab soil gas, crawl space and ambient air sampling was conducted at 32 residential properties using 6-liter (L) SUMMA® canisters fitted with individual flow controllers. Properties were identified with a unique number (Unit ID)

specific to this investigation, designated as Units 001 through 032. Sub-slab sampling wells (ports) were installed in three units 24 hours prior to sampling. Ports at Units 011 and 027 were installed June 23, 2014, and the port at Unit 032 was installed June 24, 2014. Ports were installed flush with the slab and capped with a Teflon fitting that was removed during sampling operations. The ports were installed in accordance with SERAS SOP #2082, *Construction and Installation of Permanent Sub-Slab Soil Gas Wells*. Twenty-four hour samples were collected from the sub-slab soil gas or crawl space air of 31 units. Ambient air samples were collected in the vicinity of 13 of those units, plus at Unit 009, where the ambient air sample was the only sample collected. Sampling was initiated June 24, 2014 and culminated June 26, 2014. Units 001 through 030 were sampled from June 24 to June 25, 2014, and Units 031 and 032 were sampled from June 25 to June 26, 2014. Samples were collected following ERT SERAS standard operating procedure (SOP) #1704.

SUMMA Canister Sampling. A 4 to 5-L time-weighted-average (TWA) sample was collected during a 24-hour sampling period.

The samples collected in the SUMMA canisters were properly documented and shipped to Con-Test Analytical Laboratory for analysis. Sub-slab soil gas, crawl space and ambient air analysis was performed in accordance with EPA Method TO-15 and EPA 3C. Prior to sampling, the SUMMA canisters and orifices were certified clean to meet the reporting levels for the analysis requested. Results for the TO-15 analysis were reported both in micrograms per cubic meter ($\mu\text{g m}^{-3}$) and in parts per billion by volume (ppbv). Results for the EPA 3C analysis were reported in parts per million by volume (ppmv) or in percent ($^{\circ}\text{o}$).

RESULTS

Prior to sampling activities, project screening levels for seven compounds were determined by EPA Region IV personnel. After initial review of the preliminary analytical data, screening levels for four more compounds were provided. For the remaining TO-15 compounds, screening levels were obtained from the EPA Risk-Based Screening Levels Tables from May 2014 using the lower value from the 10^{-6} cancer risk and the non-cancer hazard index of 1.0, screening levels were then adjusted to 10^{-5} risk. The screening level lists are included in Appendix A. Analytes that exceeded the regional screening levels (RSLs) for VOCs for this project are presented in Table 1. The RSL for chloroform was exceeded in nine samples, the RSLs for 1,3-butadiene and 1,4-dichlorobenzene were exceeded in three samples each, and the RSLs for 1,2-dichloroethane and benzene were exceeded in one sample each. RSLs were also provided for carbon tetrachloride, tetrachloroethylene, trichloroethylene, and ethyl benzene, but were not exceeded; and for vinyl chloride and dibromochloromethane, which were not detected in any sample.

Summarized VOC and fixed gas results for individual units are presented in Table 2. Ambient air sample locations are presented in Figure 1. Crawl space and sub-slab locations sampled are presented in Figure 2. Wind roses, graphical representations of the joint frequency distribution for wind direction and wind speed, are presented on each figure representing the two sampling periods. The meteorological data were obtained from the National Climatic Data Center (NCDC) as hourly observations recorded at Louisville International – Standiford Field Airport. River gage data for the Ohio River at Louisville, KY was obtained from the United States Geological Survey (USGS) website for the week of June 23, 2014. Data was obtained from USGS gage #03294500, located at latitude N $38^{\circ}16'49''$, longitude W $85^{\circ}47'57''$. A graph of river gage height and precipitation and a map displaying the gage location and river drainage area are included in Appendix B.

Complete analytical results are included in the Analytical Report. Appendix C. SUMMA^{*} Air Sampling Worksheets are included in Appendix D. A Confidential Unit ID to address key is provided in Appendix E.

FUTURE ACTIVITIES

Follow-up sampling will be conducted at approximately eight units in November 2014.

cc: Central File - WA # SERAS-239 (w attachment)
 Electronic File - I: Archive SERAS 239 D TR 102314
 Kevin Taylor, SERAS Program Manager (cover page only)

TABLES
Lee's Lane Landfill Site Investigation
Louisville, KY
October 2014

TABLE 1
 Analytes that Exceeded the Regional Screening Levels
 Lee's Lane Landfill
 Louisville, KY
 October 2014

Sample Number	Location	Sub Location	Matrix	Analyte	Result ($\mu\text{g}/\text{m}^3$)	Screening Level ¹ ($\mu\text{g}/\text{m}^3$)
239-0614-0003	Unit 003	Crawl Space	Air	1,2-Dichloroethane	1.5	1.08
239-0614-0008	Unit 007	Crawl Space	Air	1,3-Butadiene	6.9	0.811
239-0614-0020	Unit 014	Crawl Space	Air	1,3-Butadiene	2.5	0.811
239-0614-0024	Unit 015	Crawl Space	Air	1,3-Butadiene	1.4	0.811
239-0614-0035	Unit 023	Crawl Space	Air	1,4-Dichlorobenzene	4.9	2.55
239-0614-0043	Unit 030	Crawl Space	Air	1,4-Dichlorobenzene	7.8	2.55
239-0614-0047	Unit 032	Ambient	Air	1,4-Dichlorobenzene	13	2.55
239-0614-0008	Unit 007	Crawl Space	Air	Benzene	4.2	3.12
239-0614-0002	Unit 002	Crawl Space	Air	Chloroform	8.5	1.06
239-0614-0005	Unit 005	Crawl Space	Air	Chloroform	1.8	1.06
239-0614-0008	Unit 007	Crawl Space	Air	Chloroform	1.7	1.06
239-0614-0018	Unit 013	Crawl Space	Air	Chloroform	1.8	1.06
239-0614-0020	Unit 014	Crawl Space	Air	Chloroform	1.6	1.06
239-0614-0026	Unit 016	Crawl Space	Air	Chloroform	1.1	1.06
239-0614-0032	Unit 021	Crawl Space	Air	Chloroform	1.7	1.06
239-0614-0034	Unit 022	Crawl Space	Air	Chloroform	1.1	1.06
239-0614-0036	Unit 024	Crawl Space	Air	Chloroform	1.3	1.06

¹Provided by EPA Region IV - Regional Screening Level based on Target cancer risk (TR) = 1E-05 and target hazard quotient (THQ) = 1.0

$\mu\text{g}/\text{m}^3$ - micrograms per cubic meter

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
 October 2014

4411 Lees Lane		
CONFIDENTIAL		
Sample Number	239-0614-0001	Regional Screening Level
Location	Unit 001	Air
Sub Location	Crawl Space	
Matrix	Air	
Sample Date	6/25/2014	
Analysis	VOC	
Analyte	µg/m³	µg/m³
1,2-Dichloroethane	0.073 U	1.1
1,3-Butadiene	0.040 U	0.81
1,4-Dichlorobenzene	0.20	2.5
Benzene	0.22	3.1
Carbon Tetrachloride	0.41	4.1
Chloroform	0.15	1.1
Ethylbenzene	0.17	11
Tetrachloroethylene	0.23	42
Trichloroethylene	0.11	2.1
1,2,4-Trimethylbenzene	0.19	73
1,1,1-Trichloroethane	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.55	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	NS
1,3,5-Trimethylbenzene	0.088 U	NS
1,3-Dichlorobenzene	0.11 U	NS
2-Butanone (MEK)	4.1 U	52000
2-Hexanone (MBK)	0.39 J	310
4-Ethyltoluene	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	0.51	31000
Acetone	33 J	320000
Chlorobenzene	0.083 U	520
Chloroethane	0.046	NS
Chloromethane	0.86	940
Cyclohexane	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.1	1000
Ethyl Acetate	0.13 U	730
Heptane	0.24	NS
Hexane	15 U	7300
Isopropanol	24	73000
m&p-Xylene	0.61	1000
Methyl tert-Butyl Ether (MTBE)	0.065 U	110
Methylene Chloride	1.2 U	1000
o-Xylene	0.21	1000
Propene	2.4 U	31000
Styrene	0.096	10000
Tetrahydrofuran	0.32	NS
Toluene	1.6	52000
Trichlorofluoromethane (Freon 11)	1.4	7300
Analysis	Fixed Gas ppmv	
Units		
Carbon Monoxide	10 U	NS
Carbon Dioxide	300	NS
Methane	8 U	NS
Analysis	Fixed Gas %	
Units	%	
Nitrogen	74	NS
Oxygen	20	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

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TABLE 2
June 2014 Air Sampling Results
Lee's Lane Landfill Site Investigation
October 2014

4417 Lees Lane			
CONFIDENTIAL			
Sample Number	239-0614-0002	239-0614-0022	Regional Screening Level
Location	Unit 002	Unit 002	Air
Sub Location	Crawl Space	Ambient	
Matrix	Air	Air	
Sample Date	6/25/2014	6/25/2014	
Analysis	VOC	VOC	
Analyte	µg/m³	µg/m³	µg/m³
1,2-Dichloroethane	0.46	0.12	1.1
1,3-Butadiene	0.040 U	0.040 U	0.81
1,4-Dichlorobenzene	0.66	0.21	2.5
Benzene	0.20	0.21	3.1
Carbon Tetrachloride	0.44	0.45	4.1
Chloroform	8.5	0.13	1.1
Ethylbenzene	0.31	0.098	11
Tetrachloroethylene	0.61	0.17	42
Trichloroethylene	0.097 U	0.097 U	2.1
1,2,4-Trimethylbenzene	0.31	0.12	73
1,1,1-Trichloroethane	0.098 U	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.58	0.55	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	0.13 U	NS
1,3,5-Trimethylbenzene	0.088 U	0.088 U	NS
1,3-Dichlorobenzene	0.11 U	0.11 U	NS
2-Butanone (MEK)	7.3	7.9	52000
2-Hexanone (MBK)	0.86 J	1.3 J	310
4-Ethyltoluene	0.093	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	0.98	0.89	31000
Acetone	53 J	44 J	320000
Chlorobenzene	0.083 U	0.083 U	520
Chloroethane	0.048	0.047 U	NS
Chloromethane	0.63	1.2	940
Cyclohexane	0.12 U	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.1	2.0	1000
Ethyl Acetate	2.7	0.13 U	730
Heptane	0.34	0.20	NS
Hexane	4.9 U	8.5 U	7300
Isopropanol	38	18	73000
m&p-Xylene	0.93	0.30 U	1000
Methyl tert-Butyl Ether (MTBE)	0.065 U	0.13 U	110
Methylene Chloride	1.2 U	1.2 U	1000
o-Xylene	0.27	0.10	1000
Propene	2.4 U	2.4 U	31000
Styrene	0.56	0.11	10000
Tetrahydrofuran	0.52	0.12	NS
Toluene	3.5	0.73	52000
Trichlorofluoromethane (Freon 11)	1.6	1.4	7300
Analysis	Fixed Gas	Fixed Gas	
Units	ppmv	ppmv	
Carbon Monoxide	10 U	10 U	NS
Carbon Dioxide	360 J	270	NS
Methane	8 U	8 U	NS
Analysis	Fixed Gas	Fixed Gas	
Units	%	%	
Nitrogen	77	76	NS
Oxygen	21	20	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

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TABLE 2
June 2014 Air Sampling Results
Lee's Lane Landfill Site Investigation
October 2014

4412 Lees Lane			
CONFIDENTIAL			
Sample Number	239-0614-0003	239-0614-0023	Regional Screening Level
Location	Unit 003	Unit 003	Air
Sub Location	Crawl Space	Ambient	
Matrix	Air	Air	
Sample Date	6/25/2014	6/25/2014	
Analysis	VOC	VOC	
Analyte	µg/m³	µg/m³	µg/m³
1,2-Dichloroethane	1.5	0.073 U	1.1
1,3-Butadiene	0.040 U	0.040 U	0.81
1,4-Dichlorobenzene	0.17	0.11 U	2.5
Benzene	0.21	0.34	3.1
Carbon Tetrachloride	0.46	0.44	4.1
Chloroform	0.53	0.14	1.1
Ethylbenzene	0.10	0.29	11
Tetrachloroethylene	0.28	0.19	42
Trichloroethylene	0.097 U	0.097 U	2.1
1,2,4-Trimethylbenzene	0.19	0.30	73
1,1,1-Trichloroethane	0.098 U	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.60	0.56	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	0.13 U	NS
1,3,5-Trimethylbenzene	0.088 U	0.088 U	NS
1,3-Dichlorobenzene	0.11 U	0.11 U	NS
2-Butanone (MEK)	5.0	4.5	52000
2-Hexanone (MBK)	0.73 J	0.54 J	310
4-Ethyltoluene	0.088 U	0.097	NS
4-Methyl-2-pentanone (MIBK)	0.49	0.53	31000
Acetone	51 J	47 J	320000
Chlorobenzene	0.083 U	0.083 U	520
Chloroethane	0.085	0.047 U	NS
Chloromethane	0.81	1.4	940
Cyclohexane	0.12 U	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.1	2.1	1000
Ethyl Acetate	0.32	0.13 U	730
Heptane	0.26	0.70	NS
Hexane	4.9 U	5.3 U	7300
Isopropanol	34	36	73000
m&p-Xylene	0.30 U	1.1	1000
Methyl tert-Butyl Ether (MTBE)	0.065 U	0.13 U	110
Methylene Chloride	1.2 U	1.2 U	1000
o-Xylene	0.11	0.35	1000
Propene	2.4 U	2.4 U	31000
Styrene	0.15	0.099	10000
Tetrahydrofuran	0.45	0.21	NS
Toluene	1.7	3.2	52000
Trichlorofluoromethane (Freon 11)	1.6	1.4	7300
Analysis	Fixed Gas	Fixed Gas	
Units	ppmv	ppmv	
Carbon Monoxide	10 U	10 U	NS
Carbon Dioxide	400	330	NS
Methane	14	8 U	NS
Analysis	Fixed Gas	Fixed Gas	
Units	%	%	
Nitrogen	76	77	NS
Oxygen	20	21	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

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NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
 October 2014

6506 Putman Ave		
CONFIDENTIAL		
Sample Number	239-0614-0004	Regional Screening Level
Location	Unit 004	Air
Sub Location	Crawl Space	
Matrix	Air	
Sample Date	6/25/2014	
Analysis	VOC	
Analyte	µg/m³	µg/m³
1,2-Dichloroethane	0.15	1.1
1,3-Butadiene	0.040 U	0.81
1,4-Dichlorobenzene	2.3	2.5
Benzene	1.8	3.1
Carbon Tetrachloride	0.40	4.1
Chloroform	0.63	1.1
Ethylbenzene	10	11
Tetrachloroethylene	1.3	42
Trichloroethylene	0.18	2.1
1,2,4-Trimethylbenzene	21	73
1,1,1-Trichloroethane	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.62	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	NS
1,3,5-Trimethylbenzene	12	NS
1,3-Dichlorobenzene	0.14	NS
2-Butanone (MEK)	11	52000
2-Hexanone (MBK)	1.3 J	310
4-Ethyltoluene	15	NS
4-Methyl-2-pentanone (MIBK)	0.29 U	31000
Acetone	1700 J	320000
Chlorobenzene	0.083 U	520
Chloroethane	0.13	NS
Chloromethane	0.98	940
Cyclohexane	2.5	63000
Dichlorodifluoromethane (Freon 12)	2.1	1000
Ethyl Acetate	2.5	730
Heptane	35	NS
Hexane	0.88 J	7300
Isopropanol	21	73000
m&p-Xylene	37	1000
Methyl tert-Butyl Ether (MTBE)	0.065 U	110
Methylene Chloride	2.1	1000
o-Xylene	12	1000
Propene	2.4 U	31000
Styrene	0.75	10000
Tetrahydrofuran	0.47	NS
Toluene	2900	52000
Trichlorofluoromethane (Freon 11)	1.9	7300
Analysis	Fixed Gas	
Units	ppmv	
Carbon Monoxide	10 U	NS
Carbon Dioxide	350	NS
Methane	8 U	NS
Analysis	Fixed Gas	
Units	%	
Nitrogen	75	NS
Oxygen	20	NS

VOC - volatile organic compounds

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TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
 October 2014

6508 Putman Ave			
CONFIDENTIAL			
Sample Number	239-0614-0005	239-0614-0006	Regional Screening Level
Location	Unit 005	Unit 005	Air
Sub Location	Crawl Space	Ambient	
Matrix	Air	Air	
Sample Date	6/25/2014	6/25/2014	
Analysis	VOC	VOC	
Analyte	µg/m³	µg/m³	µg/m³
1,2-Dichloroethane	0.51	0.073 U	1.1
1,3-Butadiene	0.41	0.040 U	0.81
1,4-Dichlorobenzene	0.12	0.11 U	2.5
Benzene	0.43	0.24	3.1
Carbon Tetrachloride	0.42	0.42	4.1
Chloroform	1.8	0.15	1.1
Ethylbenzene	0.36	0.16	11
Tetrachloroethylene	0.23	0.19	42
Trichloroethylene	0.097 U	0.11	2.1
1,2,4-Trimethylbenzene	0.42	0.22	73
1,1,1-Trichloroethane	0.098 U	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.60	0.59	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	0.13 U	NS
1,3,5-Trimethylbenzene	0.13	0.088 U	NS
1,3-Dichlorobenzene	0.11 U	0.11 U	NS
2-Butanone (MEK)	8.3	7.1	52000
2-Hexanone (MBK)	1.5 J	0.91 J	310
4-Ethyltoluene	0.090	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	1.1	0.62	31000
Acetone	39 J	46 J	320000
Chlorobenzene	0.083 U	0.083 U	520
Chloroethane	0.047 U	0.047 U	NS
Chloromethane	0.83	1.3	940
Cyclohexane	0.12 U	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.0	2.1	1000
Ethyl Acetate	0.39	0.25	730
Heptane	0.33	0.32	NS
Hexane	5.3 U	4.9 U	7300
Isopropanol	18	33	73000
m&p-Xylene	1.1	0.55	1000
Methyl tert-Butyl Ether (MTBE)	0.065 U	0.065 U	110
Methylene Chloride	1.2 U	1.2 U	1000
o-Xylene	0.39	0.22	1000
Propene	2.6	2.4 U	31000
Styrene	0.34	0.11	10000
Tetrahydrofuran	0.27	0.39	NS
Toluene	2.3	1.0	52000
Trichlorofluoromethane (Freon 11)	5.4	1.5	7300
Analysis	Fixed Gas	Fixed Gas	
Units	ppmv	ppmv	
Carbon Monoxide	10 U	10 U	NS
Carbon Dioxide	470	340	NS
Methane	8 U	8 U	NS
Analysis	Fixed Gas	Fixed Gas	
Units	%	%	
Nitrogen	77	77	NS
Oxygen	20	20	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

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NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
 October 2014

6514 Putman Ave		
CONFIDENTIAL		
Sample Number	239-0614-0007	Regional Screening Level
Location	Unit 006	Air
Sub Location	Crawl Space	
Matrix	Air	
Sample Date	6/25/2014	
Analysis	VOC	
Analyte	µg/m³	µg/m³
1,2-Dichloroethane	0.073 U	1.1
1,3-Butadiene	0.58	0.81
1,4-Dichlorobenzene	0.11 U	2.5
Benzene	0.46	3.1
Carbon Tetrachloride	0.41	4.1
Chloroform	0.44	1.1
Ethylbenzene	0.18	11
Tetrachloroethylene	0.20	42
Trichloroethylene	0.097 U	2.1
1,2,4-Trimethylbenzene	0.25	73
1,1,1-Trichloroethane	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.60	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	NS
1,3,5-Trimethylbenzene	0.088 U	NS
1,3-Dichlorobenzene	0.11 U	NS
2-Butanone (MEK)	5.9	52000
2-Hexanone (MBK)	0.57 J	310
4-Ethyltoluene	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	1.1	31000
Acetone	41 J	320000
Chlorobenzene	0.083 U	520
Chloroethane	0.047 U	NS
Chloromethane	1.1	940
Cyclohexane	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.1	1000
Ethyl Acetate	0.35	730
Heptane	0.19	NS
Hexane	5.3 U	7300
Isopropanol	18	73000
m&p-Xylene	0.55	1000
Methyl tert-Butyl Ether (MTBE)	0.065 U	110
Methylene Chloride	4.2	1000
o-Xylene	0.19	1000
Propene	2.4 U	31000
Styrene	0.24	10000
Tetrahydrofuran	2.0	NS
Toluene	1.2	52000
Trichlorofluoromethane (Freon 11)	1.7	7300
Analysis	Fixed Gas	
Units	ppmv	
Carbon Monoxide	10 U	NS
Carbon Dioxide	420	NS
Methane	8 U	NS
Analysis	Fixed Gas	
Units	%	
Nitrogen	76	NS
Oxygen	20	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

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TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
 October 2014

6600 Putman Ave			
CONFIDENTIAL			
Sample Number	239-0614-0008	239-0614-0010	Regional Screening Level
Location	Unit 007	Unit 007	Air
Sub Location	Crawl Space	Ambient	
Matrix	Air	Air	
Sample Date	6/25/2014	6/25/2014	
Analysis	VOC	VOC	
Analyte	µg/m³	µg/m³	µg/m³
1,2-Dichloroethane	0.68	0.073 U	1.1
1,3-Butadiene	6.9	0.040 U	0.81
1,4-Dichlorobenzene	0.89	0.11 U	2.5
Benzene	4.2	0.22	3.1
Carbon Tetrachloride	0.41	0.39	4.1
Chloroform	1.7	0.15	1.1
Ethylbenzene	1.7	0.15	11
Tetrachloroethylene	0.79	0.22	42
Trichloroethylene	0.097 U	0.097 U	2.1
1,2,4-Trimethylbenzene	0.52	0.17	73
1,1,1-Trichloroethane	0.098 U	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.62	0.54	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	0.13 U	NS
1,3,5-Trimethylbenzene	0.14	0.088 U	NS
1,3-Dichlorobenzene	0.14	0.11 U	NS
2-Butanone (MEK)	8.8	5.8	52000
2-Hexanone (MBK)	1.1 J	0.68 J	310
4-Ethyltoluene	0.20	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	1.5	0.71	31000
Acetone	260 J	38 J	320000
Chlorobenzene	0.083 U	0.083 U	520
Chloroethane	0.15	0.047 U	NS
Chloromethane	4.8	1.1	940
Cyclohexane	0.12 U	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.1	1.9	1000
Ethyl Acetate	3.4	0.34	730
Heptane	0.91	0.27	NS
Hexane	4.9 U	6.0 U	7300
Isopropanol	23	6.1	73000
m&p-Xylene	4.4	0.52	1000
Methyl tert-Butyl Ether (MTBE)	0.065 U	0.065 U	110
Methylene Chloride	1.2 U	1.2 U	1000
o-Xylene	1.0	0.19	1000
Propene	22	2.4 U	31000
Styrene	1.2	0.16	10000
Tetrahydrofuran	0.67	0.37	NS
Toluene	11	0.94	52000
Trichlorofluoromethane (Freon 11)	12	1.3	7300
Analysis	Fixed Gas	Fixed Gas	
Units	ppmv	ppmv	
Carbon Monoxide	10 U	10 U	NS
Carbon Dioxide	570	320	NS
Methane	8 U	8 U	NS
Analysis	Fixed Gas	Fixed Gas	
Units	%	%	
Nitrogen	76	77	NS
Oxygen	20	21	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
 October 2014

6602 Putman Ave		
CONFIDENTIAL		
Sample Number	239-0614-0009	Regional Screening Level
Location	Unit 008	Air
Sub Location	Crawl Space	
Matrix	Air	
Sample Date	6/25/2014	
Analysis	VOC	
Analyte	µg/m³	µg/m³
1,2-Dichloroethane	0.32	1.1
1,3-Butadiene	0.41	0.81
1,4-Dichlorobenzene	0.11 U	2.5
Benzene	0.45	3.1
Carbon Tetrachloride	0.41	4.1
Chloroform	0.37	1.1
Ethylbenzene	1.8	11
Tetrachloroethylene	0.18	42
Trichloroethylene	0.097 U	2.1
1,2,4-Trimethylbenzene	0.85	73
1,1,1-Trichloroethane	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.58	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	NS
1,3,5-Trimethylbenzene	0.26	NS
1,3-Dichlorobenzene	0.11 U	NS
2-Butanone (MEK)	28	52000
2-Hexanone (MBK)	1.1 J	310
4-Ethyltoluene	0.23	NS
4-Methyl-2-pentanone (MIBK)	1.1	31000
Acetone	180 J	320000
Chlorobenzene	0.083 U	520
Chloroethane	0.059	NS
Chloromethane	1.4	940
Cyclohexane	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.1	1000
Ethyl Acetate	1.4	730
Heptane	0.59	NS
Hexane	4.9 U	7300
Isopropanol	80	73000
m&p-Xylene	7.0	1000
Methyl tert-Butyl Ether (MTBE)	0.096	110
Methylene Chloride	1.2 U	1000
o-Xylene	2.7	1000
Propene	3.4	31000
Styrene	5.5	10000
Tetrahydrofuran	81	NS
Toluene	2.0	52000
Trichlorofluoromethane (Freon 11)	1.5	7300
Analysis	Fixed Gas	
Units	ppmv	
Carbon Monoxide	10 U	NS
Carbon Dioxide	500	NS
Methane	8 U	NS
Analysis	Fixed Gas	
Units	%	
Nitrogen	77	NS
Oxygen	21	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
 October 2014

6612 Putman Ave		
CONFIDENTIAL		
Sample Number	239-0614-0011	Regional Screening Level
Location	Unit 009	Air
Sub Location	Ambient	
Matrix	Air	
Sample Date	6/25/2014	
Analysis	VOC	
Analyte	µg/m³	µg/m³
1,2-Dichloroethane	0.073 U	1.1
1,3-Butadiene	0.040 U	0.81
1,4-Dichlorobenzene	0.11 U	2.5
Benzene	0.18	3.1
Carbon Tetrachloride	0.40	4.1
Chloroform	0.15	1.1
Ethylbenzene	0.12	11
Tetrachloroethylene	0.30	42
Trichloroethylene	0.097 U	2.1
1,2,4-Trimethylbenzene	0.10	73
1,1,1-Trichloroethane	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.58	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	NS
1,3,5-Trimethylbenzene	0.088 U	NS
1,3-Dichlorobenzene	0.11 U	NS
2-Butanone (MEK)	6.9	52000
2-Hexanone (MBK)	1.0 J	310
4-Ethyltoluene	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	0.66	31000
Acetone	36 J	320000
Chlorobenzene	0.083 U	520
Chloroethane	0.047 U	NS
Chloromethane	1.3	940
Cyclohexane	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.1	1000
Ethyl Acetate	0.25	730
Heptane	0.21	NS
Hexane	4.9 U	7300
Isopropanol	12	73000
m&p-Xylene	0.41	1000
Methyl tert-Butyl Ether (MTBE)	0.065 U	110
Methylene Chloride	1.5	1000
o-Xylene	0.14	1000
Propene	2.4 U	31000
Styrene	0.15	10000
Tetrahydrofuran	0.24	NS
Toluene	0.71	52000
Trichlorofluoromethane (Freon 11)	1.4	7300
Analysis	Fixed Gas	
Units	ppmv	
Carbon Monoxide	10 U	NS
Carbon Dioxide	350	NS
Methane	8 U	NS
Analysis	Fixed Gas	
Units	%	
Nitrogen	78	NS
Oxygen	21	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
 October 2014

6614 Putman Ave		
CONFIDENTIAL		
Sample Number	239-0614-0012	Regional Screening Level
Location	Unit 010	Air
Sub Location	Crawl Space	
Matrix	Air	
Sample Date	6/25/2014	
Analysis	VOC	
Analyte	µg/m³	µg/m³
1,2-Dichloroethane	0.074	1.1
1,3-Butadiene	0.040 U	0.81
1,4-Dichlorobenzene	0.11 U	2.5
Benzene	0.17	3.1
Carbon Tetrachloride	0.42	4.1
Chloroform	0.23	1.1
Ethylbenzene	0.088	11
Tetrachloroethylene	0.22	42
Trichloroethylene	0.097 U	2.1
1,2,4-Trimethylbenzene	0.093	73
1,1,1-Trichloroethane	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.56	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	NS
1,3,5-Trimethylbenzene	0.088 U	NS
1,3-Dichlorobenzene	0.11 U	NS
2-Butanone (MEK)	7.3	52000
2-Hexanone (MBK)	1.2 J	310
4-Ethyltoluene	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	0.83	31000
Acetone	45 J	320000
Chlorobenzene	0.083 U	520
Chloroethane	0.047 U	NS
Chloromethane	1.0	940
Cyclohexane	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.0	1000
Ethyl Acetate	0.55	730
Heptane	0.19	NS
Hexane	4.9 U	7300
Isopropanol	19	73000
m&p-Xylene	0.30 U	1000
Methyl tert-Butyl Ether (MTBE)	0.065 U	110
Methylene Chloride	1.2 U	1000
o-Xylene	0.10	1000
Propene	2.4 U	31000
Styrene	0.17	10000
Tetrahydrofuran	0.28	NS
Toluene	0.62	52000
Trichlorofluoromethane (Freon 11)	1.4	7300
Analysis	Fixed Gas	
Units	ppmv	
Carbon Monoxide	20 U	NS
Carbon Dioxide	380	NS
Methane	16 U	NS
Analysis	Fixed Gas	
Units	%	
Nitrogen	76	NS
Oxygen	20	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
June 2014 Air Sampling Results
Lee's Lane Landfill Site Investigation
October 2014

6613 Putman Ave				
CONFIDENTIAL				
Sample Number	239-0614-0013	Regional Screening Level	239-0614-0014	Regional Screening Level
Location	Unit 011	Soil Gas	Unit 011	Ambient Air
Sub Location	SS	Soil Gas	6/25/2014	6/25/2014
Matrix	Soil Gas		Air	Air
Sample Date	6/25/2014		VOC	VOC
Analysis	VOC			
Analyte	µg/m³	µg/m³	µg/m³	µg/m³
1,2-Dichloroethane	0.68	11	0.073 U	1.1
1,3-Butadiene	0.040 U	8.0	0.040 U	0.81
1,4-Dichlorobenzene	0.75	25	0.11 U	2.5
Benzene	1.70	31	0.20	3.1
Carbon Tetrachloride	0.16	41	0.41	4.1
Chloroform	7.0	11	0.17	1.1
Ethylbenzene	2.3	110	0.30	11
Tetrachloroethylene	4.9	420	0.22	42
Trichloroethylene	0.097 U	21	0.097 U	2.1
1,2,4-Trimethylbenzene	1.9	730	0.14	73
1,1,1-Trichloroethane	2.0	520000	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.65	3100000	0.58	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.17	NS	0.13 U	NS
1,3,5-Trimethylbenzene	0.67	NS	0.088 U	NS
1,3-Dichlorobenzene	0.11 U	NS	0.11 U	NS
2-Butanone (MEK)	24	520000	5.4	52000
2-Hexanone (MBK)	5.4 J	3100	0.84 J	310
4-Ethyltoluene	0.40	NS	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	3.1	310000	0.84	31000
Acetone	140 J	3200000	46 J	320000
Chlorobenzene	0.75	5200	0.083 U	520
Chloroethane	0.047 U	NS	0.047 U	NS
Chloromethane	0.48	9400	1.3	940
Cyclohexane	2.0	630000	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	1.0	10000	2.1	1000
Ethyl Acetate	1.4	7300	0.26	730
Heptane	3.7	NS	0.23	NS
Hexane	4.9 U	73000	6.0 U	7300
Isopropanol	9.9	730000	45	73000
m&p-Xylene	4.4	10000	1.4	1000
Methyl tert-Butyl Ether (MTBE)	0.13 U	1100	0.065 U	110
Methylene Chloride	1.2 U	10000	1.2 U	1000
o-Xylene	1.7	10000	0.31	1000
Propene	9.2	310000	2.4 U	31000
Styrene	0.80	100000	0.17	10000
Tetrahydrofuran	0.64	NS	0.24	NS
Toluene	8.4	520000	0.80	52000
Trichlorofluoromethane (Freon 11)	2.0	73000	1.3	7300
Analysis	Fixed Gas ppmv		Fixed Gas ppmv	
Units				
Carbon Monoxide	20 U	NS	10 U	NS
Carbon Dioxide	18000 J	NS	320	NS
Methane	16 U	NS	8 U	NS
Analysis	Fixed Gas %		Fixed Gas %	
Units				
Nitrogen	77	NS	80	NS
Oxygen	21	NS	21	NS

VOC - volatile organic compounds, SS - sub-slab

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
June 2014 Air Sampling Results
Lee's Lane Landfill Site Investigation
October 2014

6616 Putman Ave				
CONFIDENTIAL				
Sample Number	239-0614-0015	239-0614-0016	239-0614-0017	Regional Screening Level
Location	Unit 012	Unit 012	Unit 012	Air
Sub Location	Crawl Space	CS-Co	Ambient	
Matrix	Air	Air	Air	
Sample Date	6/25/2014	6/25/2014	6/25/2014	
Analysis	VOC	VOC	VOC	
Analyte	µg/m³	µg/m³	µg/m³	µg/m³
1,2-Dichloroethane	0.28	0.30	0.073 U	1.1
1,3-Butadiene	0.040 U	0.040 U	0.41	0.81
1,4-Dichlorobenzene	0.19	0.21	0.11 U	2.5
Benzene	0.28	0.23	0.41	3.1
Carbon Tetrachloride	0.42	0.44	0.42	4.1
Chloroform	0.35	0.34	0.19	1.1
Ethylbenzene	0.12	0.13	0.18	11
Tetrachloroethylene	0.17	0.17	0.16	42
Trichloroethylene	0.097 U	0.097 U	0.098	2.1
1,2,4-Trimethylbenzene	0.13	0.14	0.17	73
1,1,1-Trichloroethane	0.098 U	0.098 U	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.55	0.58	0.6	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	0.12	0.13 U	NS
1,3,5-Trimethylbenzene	0.088 U	0.088 U	0.088 U	NS
1,3-Dichlorobenzene	0.11 U	0.11 U	0.11 U	NS
2-Butanone (MEK)	6.8	7.5	6.9	52000
2-Hexanone (MBK)	0.93 J	1.3 J	0.96 J	310
4-Ethyltoluene	0.088 U	0.088 U	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	0.97	0.97	1	31000
Acetone	41 J	32 J	40 J	320000
Chlorobenzene	0.083 U	0.083 U	0.083 U	520
Chloroethane	0.047 U	0.047 U	0.047 U	NS
Chloromethane	0.79	0.82	1.5	940
Cyclohexane	0.36	0.12 U	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.1	2.1	2.2	1000
Ethyl Acetate	0.13 U	0.13 U	0.27	730
Heptane	0.25	0.30	0.24	NS
Hexane	4.9 U	4.9 U	4.9 U	7300
Isopropanol	6.0	4.6	4.6	73000
m&p-Xylene	0.37	0.39	0.54	1000
Methyl tert-Butyl Ether (MTBE)	0.065 U	0.065 U	0.065 U	110
Methylene Chloride	1.2 U	1.2 U	1.2 U	1000
o-Xylene	0.14	0.15	0.19	1000
Propene	2.4 U	2.4 U	2.4 U	31000
Styrene	0.13	0.17	0.21	10000
Tetrahydrofuran	0.54	0.44	0.3	NS
Toluene	8.5	9.6	1.4	52000
Trichlorofluoromethane (Freon 11)	1.4	1.4	1.4	7300
Analysis	Fixed Gas	Fixed Gas	Fixed Gas	
Units	ppmv	ppmv	ppmv	
Carbon Monoxide	10 U	10 U	10 U	NS
Carbon Dioxide	370	400	330	NS
Methane	8 U	8 U	8 U	NS
Analysis	Fixed Gas	Fixed Gas	Fixed Gas	
Units	%	%	%	
Nitrogen	76	77	76	NS
Oxygen	20	21	20	NS

VOC - volatile organic compounds, CS-Co - crawl space collocated

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
June 2014 Air Sampling Results
Lee's Lane Landfill Site Investigation
October 2014

6618 Putman Ave			
CONFIDENTIAL			
Sample Number	239-0614-0018	239-0614-0019	Regional Screening Level
Location	Unit 013	Unit 013	Air
Sub Location	Crawl Space	Ambient	
Matrix	Air	Air	
Sample Date	6/25/2014	6/25/2014	
Analysis	VOC	VOC	
Analyte	µg/m³	µg/m³	µg/m³
1,2-Dichloroethane	0.073 U	0.073 U	1.1
1,3-Butadiene	0.040 U	0.040 U	0.81
1,4-Dichlorobenzene	0.11 U	0.11 U	2.5
Benzene	0.19	0.16	3.1
Carbon Tetrachloride	0.42	0.41	4.1
Chloroform	1.8	0.19	1.1
Ethylbenzene	0.13	0.078 U	11
Tetrachloroethylene	0.24	0.17	42
Trichloroethylene	0.097 U	0.097 U	2.1
1,2,4-Trimethylbenzene	0.086	0.088 U	73
1,1,1-Trichloroethane	0.098 U	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.59	0.56	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	0.13 U	NS
1,3,5-Trimethylbenzene	0.088 U	0.088 U	NS
1,3-Dichlorobenzene	0.11 U	0.11 U	NS
2-Butanone (MEK)	4.3	6.1	52000
2-Hexanone (MBK)	0.52 J	0.98 J	310
4-Ethyltoluene	0.088 U	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	0.074 U	0.72	31000
Acetone	50 J	33 J	320000
Chlorobenzene	0.083 U	0.083 U	520
Chloroethane	0.047 U	0.047 U	NS
Chloromethane	0.68	1.2	940
Cyclohexane	0.47	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.2	2.1	1000
Ethyl Acetate	0.54	0.17	730
Heptane	0.70	0.12	NS
Hexane	6.0 U	5.3 U	7300
Isopropanol	33	7	73000
m&p-Xylene	0.52	0.30 U	1000
Methyl tert-Butyl Ether (MTBE)	0.065 U	0.065 U	110
Methylene Chloride	1.2 U	1.2 U	1000
o-Xylene	0.16	0.078 U	1000
Propene	2.4 U	2.4 U	31000
Styrene	0.13	0.12	10000
Tetrahydrofuran	0.29	0.23	NS
Toluene	1.2	0.39	52000
Trichlorofluoromethane (Freon 11)	1.4	1.4	7300
Analysis	Fixed Gas	Fixed Gas	
Units	ppmv	ppmv	
Carbon Monoxide	10 U	10 U	NS
Carbon Dioxide	680	330	NS
Methane	8 U	8 U	NS
Analysis	Fixed Gas	Fixed Gas	
Units	%	%	
Nitrogen	76	75	NS
Oxygen	20	20	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
 October 2014

6627 Putman Ave			
CONFIDENTIAL			
Sample Number	239-0614-0020	239-0614-0021	Regional Screening Level
Location	Unit 014	Unit 014	Air
Sub Location	Crawl Space	Ambient	
Matrix	Air	Air	
Sample Date	6/25/2014	6/25/2014	
Analysis	VOC	VOC	
Analyte	µg/m³	µg/m³	µg/m³
1,2-Dichloroethane	0.60	0.073 U	1.1
1,3-Butadiene	2.5	0.040 U	0.81
1,4-Dichlorobenzene	0.11	0.11 U	2.5
Benzene	1.40	0.35	3.1
Carbon Tetrachloride	0.54	0.40	4.1
Chloroform	1.6	0.20	1.1
Ethylbenzene	0.61	0.24	11
Tetrachloroethylene	0.23	0.16	42
Trichloroethylene	0.097 U	0.097 U	2.1
1,2,4-Trimethylbenzene	0.67	0.29	73
1,1,1-Trichloroethane	0.098 U	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.56	0.58	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	0.13 U	NS
1,3,5-Trimethylbenzene	0.21	0.088 U	NS
1,3-Dichlorobenzene	0.11 U	0.11 U	NS
2-Butanone (MEK)	6.9	11	52000
2-Hexanone (MBK)	0.41 J	1.6 J	310
4-Ethyltoluene	0.14	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	0.67	0.76	31000
Acetone	51 J	47 J	320000
Chlorobenzene	0.083 U	0.083 U	520
Chloroethane	0.085	0.047 U	NS
Chloromethane	1.9	1.3	940
Cyclohexane	0.69	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.1	2.1	1000
Ethyl Acetate	4.9	0.33	730
Heptane	1.4	0.28	NS
Hexane	6.0 U	4.9 U	7300
Isopropanol	9.3	16	73000
m&p-Xylene	2.1	0.86	1000
Methyl tert-Butyl Ether (MTBE)	0.065 U	0.065 U	110
Methylene Chloride	4.8	1.2 U	1000
o-Xylene	0.69	0.29	1000
Propene	8.4	2.4 U	31000
Styrene	0.81	0.12	10000
Tetrahydrofuran	5.2	0.33	NS
Toluene	6.7	1.3	52000
Trichlorofluoromethane (Freon 11)	2.3	1.3	7300
Analysis	Fixed Gas	Fixed Gas	
Units	ppmv	ppmv	
Carbon Monoxide	10 U	10 U	NS
Carbon Dioxide	670	340	NS
Methane	8 U	8 U	NS
Analysis	Fixed Gas	Fixed Gas	
Units	%	%	
Nitrogen	78	76	NS
Oxygen	22	20	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
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4419 Wilmoth Ave			
CONFIDENTIAL			
Sample Number	239-0614-0024	239-0614-0025	Regional Screening Level
Location	Unit 015	Unit 015	Air
Sub Location	Crawl Space	Ambient	
Matrix	Air	Air	
Sample Date	6/25/2014	6/25/2014	
Analysis	VOC	VOC	
Analyte	µg/m³	µg/m³	µg/m³
1,2-Dichloroethane	0.44	0.073 U	1.1
1,3-Butadiene	1.4	0.040 U	0.81
1,4-Dichlorobenzene	0.11 U	0.11 U	2.5
Benzene	1.10	0.39	3.1
Carbon Tetrachloride	0.46	0.46	4.1
Chloroform	0.85	0.12	1.1
Ethylbenzene	0.69	0.46	11
Tetrachloroethylene	0.18	0.12 U	42
Trichloroethylene	0.12	0.12	2.1
1,2,4-Trimethylbenzene	0.71	0.56	73
1,1,1-Trichloroethane	0.098 U	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.58	0.61	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	0.13 U	NS
1,3,5-Trimethylbenzene	0.22	0.15	NS
1,3-Dichlorobenzene	0.11 U	0.11 U	NS
2-Butanone (MEK)	7.4	6	52000
2-Hexanone (MBK)	1.4 J	0.69 J	310
4-Ethyltoluene	0.16	0.17	NS
4-Methyl-2-pentanone (MIBK)	0.80	0.77	31000
Acetone	79 J	39	320000
Chlorobenzene	0.083 U	0.083 U	520
Chloroethane	0.11	0.047 U	NS
Chloromethane	2.3	1.3	940
Cyclohexane	0.12 U	0.21	63000
Dichlorodifluoromethane (Freon 12)	2.2	2.3	1000
Ethyl Acetate	0.48	0.19	730
Heptane	1.6	0.68	NS
Hexane	15 U	17 U	7300
Isopropanol	90	4.8	73000
m&p-Xylene	2.3	1.6	1000
Methyl tert-Butyl Ether (MTBE)	0.13 U	0.13 U	110
Methylene Chloride	1.2 U	1.2 U	1000
o-Xylene	0.76	0.57	1000
Propene	6.8	2.4 U	31000
Styrene	0.41	0.09	10000
Tetrahydrofuran	0.39	0.29	NS
Toluene	4.4	2.5	52000
Trichlorofluoromethane (Freon 11)	2.8	1.5	7300
Analysis	Fixed Gas	Fixed Gas	
Units	ppmv	ppmv	
Carbon Monoxide	10 U	10 U	NS
Carbon Dioxide	550	330	NS
Methane	8 U	8 U	NS
Analysis	Fixed Gas	Fixed Gas	
Units	%	%	
Nitrogen	77	77	NS
Oxygen	20	22	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
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4416 Wilmoth Ave		
CONFIDENTIAL		
Sample Number	239-0614-0026	Regional Screening Level
Location	Unit 016	Air
Sub Location	Crawl Space	
Matrix	Air	
Sample Date	6/25/2014	
Analysis	VOC	
Analyte	µg/m³	µg/m³
1,2-Dichloroethane	0.33	1.1
1,3-Butadiene	0.040 U	0.81
1,4-Dichlorobenzene	0.11 U	2.5
Benzene	0.26	3.1
Carbon Tetrachloride	0.51	4.1
Chloroform	1.1	1.1
Ethylbenzene	0.14	11
Tetrachloroethylene	0.12 U	42
Trichloroethylene	0.094	2.1
1,2,4-Trimethylbenzene	0.18	73
1,1,1-Trichloroethane	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.65	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.12	NS
1,3,5-Trimethylbenzene	0.088 U	NS
1,3-Dichlorobenzene	0.11 U	NS
2-Butanone (MEK)	9.9	52000
2-Hexanone (MBK)	1.4 J	310
4-Ethyltoluene	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	1.3	31000
Acetone	78	320000
Chlorobenzene	0.083 U	520
Chloroethane	0.047 U	NS
Chloromethane	1.3	940
Cyclohexane	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.9	1000
Ethyl Acetate	0.52	730
Heptane	0.26	NS
Hexane	4.9 U	7300
Isopropanol	30	73000
m&p-Xylene	0.41	1000
Methyl tert-Butyl Ether (MTBE)	0.13 U	110
Methylene Chloride	1.2 U	1000
o-Xylene	0.16	1000
Propene	2.4 U	31000
Styrene	0.18	10000
Tetrahydrofuran	0.34	NS
Toluene	0.88	52000
Trichlorofluoromethane (Freon 11)	1.6	7300
Analysis	Fixed Gas	
Units	ppmv	
Carbon Monoxide	10 U	NS
Carbon Dioxide	450	NS
Methane	8 U	NS
Analysis	Fixed Gas	
Units	%	
Nitrogen	75	NS
Oxygen	22	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
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4414 Wilmoth Ave		
CONFIDENTIAL		
Sample Number	239-0614-0027	Regional Screening Level
Location	Unit 017	Air
Sub Location	Crawl Space	
Matrix	Air	
Sample Date	6/25/2014	
Analysis	VOC	
Analyte	µg/m³	µg/m³
1,2-Dichloroethane	0.073 U	1.1
1,3-Butadiene	0.040 U	0.81
1,4-Dichlorobenzene	0.11 U	2.5
Benzene	0.21	3.1
Carbon Tetrachloride	0.59	4.1
Chloroform	0.67	1.1
Ethylbenzene	0.16	11
Tetrachloroethylene	0.12 U	42
Trichloroethylene	0.097 U	2.1
1,2,4-Trimethylbenzene	0.18	73
1,1,1-Trichloroethane	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.63	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	NS
1,3,5-Trimethylbenzene	0.088 U	NS
1,3-Dichlorobenzene	0.11 U	NS
2-Butanone (MEK)	6.3	52000
2-Hexanone (MBK)	0.75 J	310
4-Ethyltoluene	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	0.69	31000
Acetone	540	320000
Chlorobenzene	0.083 U	520
Chloroethane	0.091	NS
Chloromethane	1.3	940
Cyclohexane	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.2	1000
Ethyl Acetate	0.43	730
Heptane	0.18	NS
Hexane	16 U	7300
Isopropanol	920	73000
m&p-Xylene	0.59	1000
Methyl tert-Butyl Ether (MTBE)	0.13 U	110
Methylene Chloride	1.2 U	1000
o-Xylene	0.23	1000
Propene	2.4 U	31000
Styrene	0.27	10000
Tetrahydrofuran	0.44	NS
Toluene	1.1	52000
Trichlorofluoromethane (Freon 11)	1.8	7300
Analysis	Fixed Gas ppmv	
Units		
Carbon Monoxide	10 U	NS
Carbon Dioxide	510	NS
Methane	8 U	NS
Analysis	Fixed Gas %	
Units		
Nitrogen	78	NS
Oxygen	22	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
June 2014 Air Sampling Results
Lee's Lane Landfill Site Investigation
October 2014

4417 Wilmoth Ave			
CONFIDENTIAL			
Sample Number	239-0614-0028	239-0614-0029	Regional Screening Level
Location	Unit 018	Unit 018	Air
Sub Location	Crawl Space	CS-Co	
Matrix	Air	Air	
Sample Date	6/25/2014	6/25/2014	
Analysis	VOC	VOC	
Analyte	µg/m³	µg/m³	µg/m³
1,2-Dichloroethane	0.16	0.14	1.1
1,3-Butadiene	0.040 U	0.040 U	0.81
1,4-Dichlorobenzene	0.11 U	0.11 U	2.5
Benzene	0.30	0.24	3.1
Carbon Tetrachloride	0.48	0.44	4.1
Chloroform	0.72	0.7	1.1
Ethylbenzene	0.23	0.18	11
Tetrachloroethylene	0.12 U	0.17	42
Trichloroethylene	0.097 U	0.097 U	2.1
1,2,4-Trimethylbenzene	0.29	0.26	73
1,1,1-Trichloroethane	0.098 U	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.60	0.54	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	0.13 U	NS
1,3,5-Trimethylbenzene	0.088 U	0.088 U	NS
1,3-Dichlorobenzene	0.11 U	0.11 U	NS
2-Butanone (MEK)	6.5	4.1 U	52000
2-Hexanone (MBK)	1.2 J	0.46 J	310
4-Ethyltoluene	0.088 U	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	0.54	0.67	31000
Acetone	35	29 J	320000
Chlorobenzene	0.083 U	0.083 U	520
Chloroethane	0.15	0.047 U	NS
Chloromethane	1.1	0.97	940
Cyclohexane	0.12 U	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.3	2	1000
Ethyl Acetate	2.1	1.9	730
Heptane	0.24	0.19	NS
Hexane	4.9 U	17 U	7300
Isopropanol	4.8	5	73000
m&p-Xylene	0.73	0.66	1000
Methyl tert-Butyl Ether (MTBE)	0.13 U	0.13 U	110
Methylene Chloride	1.2 U	1.2 U	1000
o-Xylene	0.32	0.27	1000
Propene	2.4 U	2.4 U	31000
Styrene	0.16	0.13	10000
Tetrahydrofuran	0.32	0.29	NS
Toluene	1.5	1.3	52000
Trichlorofluoromethane (Freon 11)	1.9	1.7	7300
Analysis	Fixed Gas	Fixed Gas	
Units	ppmv	ppmv	
Carbon Monoxide	10 U	10 U	NS
Carbon Dioxide	390	500	NS
Methane	8 U	8 U	NS
Analysis	Fixed Gas	Fixed Gas	
Units	%	%	
Nitrogen	81	76	NS
Oxygen	22	21	NS

VOC - volatile organic compounds, CS-Co - crawl space collocated

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
 October 2014

4411 Wilmoth Ave		
CONFIDENTIAL		
Sample Number	239-0614-0030	Regional Screening Level
Location	Unit 019	Air
Sub Location	Crawl Space	
Matrix	Air	
Sample Date	6/25/2014	
Analysis	VOC	
Analyte	µg/m³	µg/m³
1,2-Dichloroethane	0.63	1.1
1,3-Butadiene	0.040 U	0.81
1,4-Dichlorobenzene	0.11 U	2.5
Benzene	0.41	3.1
Carbon Tetrachloride	0.46	4.1
Chloroform	0.41	1.1
Ethylbenzene	0.26	11
Tetrachloroethylene	0.16	42
Trichloroethylene	0.098	2.1
1,2,4-Trimethylbenzene	0.26	73
1,1,1-Trichloroethane	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.56	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	NS
1,3,5-Trimethylbenzene	0.26	NS
1,3-Dichlorobenzene	0.11 U	NS
2-Butanone (MEK)	7.3	52000
2-Hexanone (MBK)	1.3 J	310
4-Ethyltoluene	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	1	31000
Acetone	38 J	320000
Chlorobenzene	0.083 U	520
Chloroethane	0.047 U	NS
Chloromethane	1.2	940
Cyclohexane	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.1	1000
Ethyl Acetate	0.31	730
Heptane	0.22	NS
Hexane	4.9 U	7300
Isopropanol	4.7	73000
m&p-Xylene	1.5	1000
Methyl tert-Butyl Ether (MTBE)	0.13 U	110
Methylene Chloride	1.2 U	1000
o-Xylene	0.26	1000
Propene	2.4 U	31000
Styrene	0.22	10000
Tetrahydrofuran	0.43	NS
Toluene	1.1	52000
Trichlorofluoromethane (Freon 11)	1.4	7300
Analysis	Fixed Gas ppmv	
Units		
Carbon Monoxide	10 U	NS
Carbon Dioxide	460	NS
Methane	8 U	NS
Analysis	Fixed Gas %	
Units		
Nitrogen	77	NS
Oxygen	21	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
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4408 Wilmoth Ave		
CONFIDENTIAL		
Sample Number	239-0614-0031	Regional Screening Level
Location	Unit 020	Air
Sub Location	Crawl Space	
Matrix	Air	
Sample Date	6/25/2014	
Analysis	VOC	
Analyte	µg/m³	µg/m³
1,2-Dichloroethane	0.073 U	1.1
1,3-Butadiene	0.040 U	0.81
1,4-Dichlorobenzene	0.99	2.5
Benzene	0.2	3.1
Carbon Tetrachloride	0.44	4.1
Chloroform	0.25	1.1
Ethylbenzene	0.27	11
Tetrachloroethylene	0.91	42
Trichloroethylene	0.094	2.1
1,2,4-Trimethylbenzene	0.19	73
1,1,1-Trichloroethane	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.59	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	NS
1,3,5-Trimethylbenzene	0.088 U	NS
1,3-Dichlorobenzene	0.14	NS
2-Butanone (MEK)	10	52000
2-Hexanone (MBK)	2.1 J	310
4-Ethyltoluene	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	0.9	31000
Acetone	45 J	320000
Chlorobenzene	0.083 U	520
Chloroethane	0.054	NS
Chloromethane	0.51	940
Cyclohexane	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.1	1000
Ethyl Acetate	0.72	730
Heptane	0.37	NS
Hexane	17 U	7300
Isopropanol	6.1	73000
m&p-Xylene	0.94	1000
Methyl tert-Butyl Ether (MTBE)	0.13 U	110
Methylene Chloride	1.2 U	1000
o-Xylene	0.23	1000
Propene	2.4 U	31000
Styrene	0.26	10000
Tetrahydrofuran	0.34	NS
Toluene	2.7	52000
Trichlorofluoromethane (Freon 11)	1.5	7300
Analysis	Fixed Gas	
Units	ppmv	
Carbon Monoxide	10 U	NS
Carbon Dioxide	390	NS
Methane	8 U	NS
Analysis	Fixed Gas	
Units	%	
Nitrogen	74	NS
Oxygen	20	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
June 2014 Air Sampling Results
Lee's Lane Landfill Site Investigation
October 2014

4409 Wilmoth Ave			
CONFIDENTIAL			
Sample Number	239-0614-0032	239-0614-0033	Regional Screening Level
Location	Unit 021	Unit 021	Air
Sub Location	Crawl Space	Ambient	
Matrix	Air	Air	
Sample Date	6/25/2014	6/25/2014	
Analysis	VOC	VOC	
Analyte	µg/m³	µg/m³	µg/m³
1,2-Dichloroethane	0.073 U	0.073 U	1.1
1,3-Butadiene	0.31	0.040 U	0.81
1,4-Dichlorobenzene	0.21	0.11 U	2.5
Benzene	0.93	0.26	3.1
Carbon Tetrachloride	0.42	0.48	4.1
Chloroform	1.7	0.12	1.1
Ethylbenzene	0.74	0.17	11
Tetrachloroethylene	0.28	0.12 U	42
Trichloroethylene	0.30	0.094	2.1
1,2,4-Trimethylbenzene	0.88	0.24	73
1,1,1-Trichloroethane	0.098 U	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.59	0.69	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	0.12	NS
1,3,5-Trimethylbenzene	0.27	0.088 U	NS
1,3-Dichlorobenzene	0.11 U	0.11 U	NS
2-Butanone (MEK)	4.1 U	5.4	52000
2-Hexanone (MBK)	0.49 UJ	0.7 J	310
4-Ethyltoluene	0.22	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	0.74 J	0.32	31000
Acetone	45 J	31	320000
Chlorobenzene	0.083 U	0.083 U	520
Chloroethane	0.047 U	0.047 U	NS
Chloromethane	1.1	1.4	940
Cyclohexane	0.76	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.1	2.3	1000
Ethyl Acetate	49	0.19	730
Heptane	0.83	0.23	NS
Hexane	17 U	16 U	7300
Isopropanol	40	4.8	73000
m&p-Xylene	2.3	0.57	1000
Methyl tert-Butyl Ether (MTBE)	0.13 U	0.13 U	110
Methylene Chloride	3.5	1.2 U	1000
o-Xylene	0.96	0.21	1000
Propene	2.4 U	2.4 U	31000
Styrene	0.86	0.077 U	10000
Tetrahydrofuran	1.6	0.18	NS
Toluene	8.4	0.87	52000
Trichlorofluoromethane (Freon 11)	1.6	1.6	7300
Analysis	Fixed Gas	Fixed Gas	
Units	ppmv	ppmv	
Carbon Monoxide	10 U	10 U	NS
Carbon Dioxide	580	300 J	NS
Methane	8 U	8 U	NS
Analysis	Fixed Gas	Fixed Gas	
Units	%	%	
Nitrogen	75	78	NS
Oxygen	20	21	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated, UJ - not detected and reporting limit is estimated

NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
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4405 Wilmoth Ave		
CONFIDENTIAL		
Sample Number	239-0614-0034	Regional Screening Level
Location	Unit 022	Air
Sub Location	Crawl Space	
Matrix	Air	
Sample Date	6/25/2014	
Analysis	VOC	
Analyte	µg/m³	µg/m³
1,2-Dichloroethane	0.33	1.1
1,3-Butadiene	0.040 U	0.81
1,4-Dichlorobenzene	0.11 U	2.5
Benzene	0.37	3.1
Carbon Tetrachloride	0.48	4.1
Chloroform	1.1	1.1
Ethylbenzene	0.98	11
Tetrachloroethylene	0.34	42
Trichloroethylene	0.12	2.1
1,2,4-Trimethylbenzene	0.67	73
1,1,1-Trichloroethane	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.65	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13	NS
1,3,5-Trimethylbenzene	0.18	NS
1,3-Dichlorobenzene	0.11 U	NS
2-Butanone (MEK)	7.6	52000
2-Hexanone (MBK)	1.3 J	310
4-Ethyltoluene	0.15	NS
4-Methyl-2-pentanone (MIBK)	0.99	31000
Acetone	58	320000
Chlorobenzene	0.083 U	520
Chloroethane	0.047 U	NS
Chloromethane	0.98	940
Cyclohexane	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.3	1000
Ethyl Acetate	8.8	730
Heptane	0.43	NS
Hexane	6.0 U	7300
Isopropanol	5.3	73000
m&p-Xylene	4.5	1000
Methyl tert-Butyl Ether (MTBE)	0.13 U	110
Methylene Chloride	1.2 U	1000
o-Xylene	1.9	1000
Propene	2.4 U	31000
Styrene	0.43	10000
Tetrahydrofuran	0.36	NS
Toluene	5.2	52000
Trichlorofluoromethane (Freon 11)	1.6	7300
Analysis	Fixed Gas	
Units	ppmv	
Carbon Monoxide	10 U	NS
Carbon Dioxide	540	NS
Methane	8 U	NS
Analysis	Fixed Gas	
Units	%	
Nitrogen	80	NS
Oxygen	22	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
 October 2014

4402 Wilmoth Ave		
CONFIDENTIAL		
Sample Number	239-0614-0035	Regional Screening Level
Location	Unit 023	Air
Sub Location	Crawl Space	
Matrix	Air	
Sample Date	6/25/2014	
Analysis	VOC	
Analyte	µg/m³	µg/m³
1,2-Dichloroethane	0.33	1.1
1,3-Butadiene	0.040 U	0.81
1,4-Dichlorobenzene	4.90	2.5
Benzene	0.26	3.1
Carbon Tetrachloride	0.47	4.1
Chloroform	0.99	1.1
Ethylbenzene	0.37	11
Tetrachloroethylene	0.74	42
Trichloroethylene	0.14	2.1
1,2,4-Trimethylbenzene	0.32	73
1,1,1-Trichloroethane	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.67 J	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13	NS
1,3,5-Trimethylbenzene	0.1	NS
1,3-Dichlorobenzene	0.16	NS
2-Butanone (MEK)	11	52000
2-Hexanone (MBK)	2.4 J	310
4-Ethyltoluene	0.1	NS
4-Methyl-2-pentanone (MIBK)	1.3	31000
Acetone	56	320000
Chlorobenzene	0.083 U	520
Chloroethane	0.083	NS
Chloromethane	0.65	940
Cyclohexane	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.3	1000
Ethyl Acetate	0.83	730
Heptane	0.65	NS
Hexane	16 U	7300
Isopropanol	27	73000
m&p-Xylene	1.2	1000
Methyl tert-Butyl Ether (MTBE)	0.13 U	110
Methylene Chloride	1.7	1000
o-Xylene	0.36	1000
Propene	2.4 U	31000
Styrene	0.38	10000
Tetrahydrofuran	0.35	NS
Toluene	3.5	52000
Trichlorofluoromethane (Freon 11)	1.6	7300
Analysis	Fixed Gas	
Units	ppmv	
Carbon Monoxide	10 U	NS
Carbon Dioxide	510	NS
Methane	8 U	NS
Analysis	Fixed Gas	
Units	%	
Nitrogen	81	NS
Oxygen	21	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
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4431 Wilshire Ave			
CONFIDENTIAL			
Sample Number	239-0614-0036	239-0614-0037	Regional Screening Level
Location	Unit 024	Unit 024	Air
Sub Location	Crawl Space	Ambient	
Matrix	Air	Air	
Sample Date	6/25/2014	6/25/2014	
Analysis	VOC	VOC	
Analyte	µg/m³	µg/m³	µg/m³
1,2-Dichloroethane	0.70	0.073 U	1.1
1,3-Butadiene	0.040 U	0.040 U	0.81
1,4-Dichlorobenzene	0.11 U	0.11 U	2.5
Benzene	0.52	0.25	3.1
Carbon Tetrachloride	0.62	0.45	4.1
Chloroform	1.3	0.12	1.1
Ethylbenzene	0.78	0.22	11
Tetrachloroethylene	0.64	0.31	42
Trichloroethylene	0.097 U	0.1	2.1
1,2,4-Trimethylbenzene	0.42	0.28	73
1,1,1-Trichloroethane	4.2	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.66	0.59	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.12	0.13 U	NS
1,3,5-Trimethylbenzene	0.13	0.088 U	NS
1,3-Dichlorobenzene	0.11 U	0.11 U	NS
2-Butanone (MEK)	7.7	7.8	52000
2-Hexanone (MBK)	0.62 J	1.1 J	310
4-Ethyltoluene	0.10	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	0.77	0.89	31000
Acetone	42	38 J	320000
Chlorobenzene	0.083 U	0.083 U	520
Chloroethane	0.083	0.047 U	NS
Chloromethane	1.3	1.3	940
Cyclohexane	2.2	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.3	2.1	1000
Ethyl Acetate	2.6	0.34	730
Heptane	0.92	0.31	NS
Hexane	12 J	8.5 U	7300
Isopropanol	12	6.5	73000
m&p-Xylene	2.5	0.83	1000
Methyl tert-Butyl Ether (MTBE)	0.13 U	0.13 U	110
Methylene Chloride	1.2 U	1.2 U	1000
o-Xylene	0.78	0.32	1000
Propene	2.4 U	2.4 U	31000
Styrene	0.73	0.14	10000
Tetrahydrofuran	0.46	0.32	NS
Toluene	5.2	1.1	52000
Trichlorofluoromethane (Freon 11)	1.8	1.4	7300
Analysis	Fixed Gas	Fixed Gas	
Units	ppmv	ppmv	
Carbon Monoxide	10 U	10 U	NS
Carbon Dioxide	460	350 J	NS
Methane	8 U	8 U	NS
Analysis	Fixed Gas	Fixed Gas	
Units	%	%	
Nitrogen	80	76	NS
Oxygen	21 J	21	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
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4428 Wilshire Ave		
CONFIDENTIAL		
Sample Number	239-0614-0038	Regional Screening Level
Location	Unit 025	Air
Sub Location	Crawl Space	
Matrix	Air	
Sample Date	6/25/2014	
Analysis	VOC	
Analyte	µg/m³	µg/m³
1,2-Dichloroethane	0.073 U	1.1
1,3-Butadiene	0.22	0.81
1,4-Dichlorobenzene	0.11 U	2.5
Benzene	0.38	3.1
Carbon Tetrachloride	0.43	4.1
Chloroform	0.12	1.1
Ethylbenzene	0.23	11
Tetrachloroethylene	0.32	42
Trichloroethylene	0.098	2.1
1,2,4-Trimethylbenzene	0.32	73
1,1,1-Trichloroethane	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.59	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	NS
1,3,5-Trimethylbenzene	0.09	NS
1,3-Dichlorobenzene	0.11 U	NS
2-Butanone (MEK)	4.7	52000
2-Hexanone (MBK)	0.60 J	310
4-Ethyltoluene	0.1	NS
4-Methyl-2-pentanone (MIBK)	0.71	31000
Acetone	49 J	320000
Chlorobenzene	0.083 U	520
Chloroethane	0.047 U	NS
Chloromethane	1.2	940
Cyclohexane	3.7	63000
Dichlorodifluoromethane (Freon 12)	2.1	1000
Ethyl Acetate	0.39	730
Heptane	0.83	NS
Hexane	8.5 U	7300
Isopropanol	8.5	73000
m&p-Xylene	0.9	1000
Methyl tert-Butyl Ether (MTBE)	0.13 U	110
Methylene Chloride	1.2 U	1000
o-Xylene	0.37	1000
Propene	2.4 U	31000
Styrene	0.17	10000
Tetrahydrofuran	0.43	NS
Toluene	1.4	52000
Trichlorofluoromethane (Freon 11)	1.4	7300
Analysis	Fixed Gas	
Units	ppmv	
Carbon Monoxide	10 U	NS
Carbon Dioxide	310	NS
Methane	8 U	NS
Analysis	Fixed Gas	
Units	%	
Nitrogen	76	NS
Oxygen	21	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
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4427 Wilshire Ave		
CONFIDENTIAL		
Sample Number	239-0614-0039	Regional Screening Level
Location	Unit 026	Air
Sub Location	Crawl Space	
Matrix	Air	
Sample Date	6/25/2014	
Analysis	VOC	
Analyte	µg/m³	µg/m³
1,2-Dichloroethane	0.073 U	1.1
1,3-Butadiene	0.040 U	0.81
1,4-Dichlorobenzene	0.11 U	2.5
Benzene	0.2	3.1
Carbon Tetrachloride	0.43	4.1
Chloroform	0.27	1.1
Ethylbenzene	0.18	11
Tetrachloroethylene	0.34	42
Trichloroethylene	0.097 U	2.1
1,2,4-Trimethylbenzene	0.15	73
1,1,1-Trichloroethane	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.59	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	NS
1,3,5-Trimethylbenzene	0.088 U	NS
1,3-Dichlorobenzene	0.11 U	NS
2-Butanone (MEK)	4.1 U	52000
2-Hexanone (MBK)	0.48 J	310
4-Ethyltoluene	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	0.69	31000
Acetone	27 J	320000
Chlorobenzene	0.083 U	520
Chloroethane	0.047 U	NS
Chloromethane	0.78	940
Cyclohexane	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.1	1000
Ethyl Acetate	0.13 U	730
Heptane	0.17	NS
Hexane	8.5 U	7300
Isopropanol	9.3	73000
m&p-Xylene	0.69	1000
Methyl tert-Butyl Ether (MTBE)	0.13 U	110
Methylene Chloride	1.2 U	1000
o-Xylene	0.28	1000
Propene	2.4 U	31000
Styrene	0.11	10000
Tetrahydrofuran	0.32	NS
Toluene	1	52000
Trichlorofluoromethane (Freon 11)	1.4	7300
Analysis	Fixed Gas	
Units	ppmv	
Carbon Monoxide	10 U	NS
Carbon Dioxide	310 J	NS
Methane	8 U	NS
Analysis	Fixed Gas	
Units	%	
Nitrogen	75	NS
Oxygen	20	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
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4401 Wilmoth Ave		
CONFIDENTIAL		
Sample Number	239-0614-0040	Regional Screening Level
Location	Unit 027	Soil Gas
Sub Location	SS	Soil Gas
Matrix	Soil Gas	
Sample Date	6/25/2014	
Analysis	VOC	
Analyte	µg/m³	µg/m³
1,2-Dichloroethane	0.073 U	11
1,3-Butadiene	0.040 U	8
1,4-Dichlorobenzene	0.18	25
Benzene	0.49	31
Carbon Tetrachloride	0.33	41
Chloroform	0.26	11
Ethylbenzene	1.2	110
Tetrachloroethylene	0.77	420
Trichloroethylene	0.097 U	21
1,2,4-Trimethylbenzene	1.2	730
1,1,1-Trichloroethane	1.3	520000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.58	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.15	NS
1,3,5-Trimethylbenzene	0.41	NS
1,3-Dichlorobenzene	0.11 U	NS
2-Butanone (MEK)	19	520000
2-Hexanone (MBK)	3.6 J	3100
4-Ethyltoluene	0.15	NS
4-Methyl-2-pentanone (MIBK)	2.8	310000
Acetone	110 J	3200000
Chlorobenzene	0.51	5200
Chloroethane	0.047 U	NS
Chloromethane	0.18	9400
Cyclohexane	1.3	630000
Dichlorodifluoromethane (Freon 12)	2.5	10000
Ethyl Acetate	0.86	7300
Heptane	1.2	NS
Hexane	6 U	73000
Isopropanol	8.7	730000
m&p-Xylene	5.5	10000
Methyl tert-Butyl Ether (MTBE)	0.13 U	1100
Methylene Chloride	1.2 U	10000
o-Xylene	2.6	10000
Propene	2.4 U	310000
Styrene	0.69	100000
Tetrahydrofuran	0.34	NS
Toluene	4.5	520000
Trichlorofluoromethane (Freon 11)	4.7	73000
Analysis	Fixed Gas	
Units	ppmv	
Carbon Monoxide	10 U	NS
Carbon Dioxide	1700 J	NS
Methane	8 U	NS
Analysis	Fixed Gas	
Units	%	
Nitrogen	74	NS
Oxygen	21	NS

VOC - volatile organic compounds, SS - sub-slab

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
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4419 Wilshire Ave		
CONFIDENTIAL		
Sample Number	239-0614-0041	Regional Screening Level
Location	Unit 028	Air
Sub Location	Crawl Space	
Matrix	Air	
Sample Date	6/25/2014	
Analysis	VOC	
Analyte	µg/m³	µg/m³
1,2-Dichloroethane	0.35	1.1
1,3-Butadiene	0.26	0.81
1,4-Dichlorobenzene	0.11	2.5
Benzene	0.41	3.1
Carbon Tetrachloride	0.46	4.1
Chloroform	0.4	1.1
Ethylbenzene	0.67	11
Tetrachloroethylene	0.38	42
Trichloroethylene	0.13	2.1
1,2,4-Trimethylbenzene	0.40 J	73
1,1,1-Trichloroethane	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.6	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.12	NS
1,3,5-Trimethylbenzene	0.13	NS
1,3-Dichlorobenzene	0.11 U	NS
2-Butanone (MEK)	7.2	52000
2-Hexanone (MBK)	1.3 J	310
4-Ethyltoluene	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	0.074 U	31000
Acetone	65 J	320000
Chlorobenzene	0.083 U	520
Chloroethane	0.047 U	NS
Chloromethane	0.99	940
Cyclohexane	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.2	1000
Ethyl Acetate	0.29	730
Heptane	0.72	NS
Hexane	6.0 U	7300
Isopropanol	8.9	73000
m&p-Xylene	3.4	1000
Methyl tert-Butyl Ether (MTBE)	0.13 U	110
Methylene Chloride	1.2 U	1000
o-Xylene	1.5	1000
Propene	2.4 U	31000
Styrene	0.27	10000
Tetrahydrofuran	0.75	NS
Toluene	2.5	52000
Trichlorofluoromethane (Freon 11)	1.5	7300
Analysis	Fixed Gas	
Units	ppmv	
Carbon Monoxide	10 U	NS
Carbon Dioxide	430	NS
Methane	8 U	NS
Analysis	Fixed Gas	
Units	%	
Nitrogen	75	NS
Oxygen	20	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
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4416 Wilshire Ave		
CONFIDENTIAL		
Sample Number	239-0614-0042	Regional Screening Level
Location	Unit 029	Air
Sub Location	Crawl Space	
Matrix	Air	
Sample Date	6/25/2014	
Analysis	VOC	
Analyte	µg/m³	µg/m³
1,2-Dichloroethane	0.28	1.1
1,3-Butadiene	0.040 U	0.81
1,4-Dichlorobenzene	0.11 U	2.5
Benzene	0.22	3.1
Carbon Tetrachloride	0.43	4.1
Chloroform	0.53	1.1
Ethylbenzene	0.66	11
Tetrachloroethylene	0.31	42
Trichloroethylene	0.12	2.1
1,2,4-Trimethylbenzene	0.46	73
1,1,1-Trichloroethane	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.6	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	NS
1,3,5-Trimethylbenzene	0.15	NS
1,3-Dichlorobenzene	0.11 U	NS
2-Butanone (MEK)	6.8	52000
2-Hexanone (MBK)	1.3 J	310
4-Ethyltoluene	0.11	NS
4-Methyl-2-pentanone (MIBK)	0.67	31000
Acetone	38 J	320000
Chlorobenzene	0.083 U	520
Chloroethane	0.047 U	NS
Chloromethane	1.2	940
Cyclohexane	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.1	1000
Ethyl Acetate	0.29	730
Heptane	0.26	NS
Hexane	6.0 U	7300
Isopropanol	3.4 U	73000
m&p-Xylene	3.4	1000
Methyl tert-Butyl Ether (MTBE)	0.13 U	110
Methylene Chloride	1.2 U	1000
o-Xylene	1.5	1000
Propene	2.4 U	31000
Styrene	0.22	10000
Tetrahydrofuran	0.2	NS
Toluene	2.2	52000
Trichlorofluoromethane (Freon 11)	1.4	7300
Analysis	Fixed Gas	
Units	ppmv	
Carbon Monoxide	10 U	NS
Carbon Dioxide	400	NS
Methane	8 U	NS
Analysis	Fixed Gas	
Units	%	
Nitrogen	76	NS
Oxygen	20	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
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4423 Wilshire Ave

CONFIDENTIAL

Sample Number	239-0614-0043	Regional Screening Level
Location	Unit 030	Air
Sub Location	Crawl Space	
Matrix	Air	
Sample Date	6/25/2014	
Analysis	VOC	
Analyte	µg/m³	µg/m³
1,2-Dichloroethane	0.41	1.1
1,3-Butadiene	0.040 U	0.81
1,4-Dichlorobenzene	7.80	2.5
Benzene	0.22	3.1
Carbon Tetrachloride	0.42	4.1
Chloroform	0.32	1.1
Ethylbenzene	0.14	11
Tetrachloroethylene	0.16	42
Trichloroethylene	0.11	2.1
1,2,4-Trimethylbenzene	0.17	73
1,1,1-Trichloroethane	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.59	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	NS
1,3,5-Trimethylbenzene	0.088 U	NS
1,3-Dichlorobenzene	0.11 U	NS
2-Butanone (MEK)	6.9	52000
2-Hexanone (MBK)	1.0 J	310
4-Ethyltoluene	0.088 U	NS
4-Methyl-2-pentanone (MIBK)	0.51	31000
Acetone	38 J	320000
Chlorobenzene	0.083 U	520
Chloroethane	0.047 U	NS
Chloromethane	1.1	940
Cyclohexane	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.2	1000
Ethyl Acetate	0.21	730
Heptane	0.2	NS
Hexane	4.9 U	7300
Isopropanol	5	73000
m&p-Xylene	0.42	1000
Methyl tert-Butyl Ether (MTBE)	0.13 U	110
Methylene Chloride	1.2 U	1000
o-Xylene	0.16	1000
Propene	2.4 U	31000
Styrene	0.14	10000
Tetrahydrofuran	0.15	NS
Toluene	0.68	52000
Trichlorofluoromethane (Freon 11)	1.4	7300
Analysis	Fixed Gas ppmv	
Units		
Carbon Monoxide	10 U	NS
Carbon Dioxide	410	NS
Methane	8 U	NS
Analysis	Fixed Gas %	
Units		
Nitrogen	75	NS
Oxygen	20	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
 June 2014 Air Sampling Results
 Lee's Lane Landfill Site Investigation
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4429 Wilshire Ave			
CONFIDENTIAL			
Sample Number	239-0614-0044	239-0614-0045	Regional Screening Level
Location	Unit 031	Unit 031	Air
Sub Location	Crawl Space	Ambient	
Matrix	Air	Air	
Sample Date	6/26/2014	6/26/2014	
Analysis	VOC	VOC	
Analyte	µg/m³	µg/m³	µg/m³
1,2-Dichloroethane	0.073 U	0.073 U	1.1
1,3-Butadiene	0.040 U	0.040 U	0.81
1,4-Dichlorobenzene	0.11 U	0.11 U	2.5
Benzene	0.19	0.30	3.1
Carbon Tetrachloride	0.44	0.43	4.1
Chloroform	0.17	0.14	1.1
Ethylbenzene	0.19	0.31	11
Tetrachloroethylene	0.17	0.12 U	42
Trichloroethylene	0.45	0.67	2.1
1,2,4-Trimethylbenzene	0.27	0.32	73
1,1,1-Trichloroethane	0.098 U	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.55 J	0.65	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13 U	0.13 U	NS
1,3,5-Trimethylbenzene	0.088 U	0.1	NS
1,3-Dichlorobenzene	0.11 U	0.11 U	NS
2-Butanone (MEK)	5.2	6	52000
2-Hexanone (MBK)	0.93 J	0.62 J	310
4-Ethyltoluene	0.088 U	0.097	NS
4-Methyl-2-pentanone (MIBK)	0.59	0.53	31000
Acetone	24 J	41 J	320000
Chlorobenzene	0.083 U	0.083 U	520
Chloroethane	0.047 U	0.047 U	NS
Chloromethane	0.73	1.4	940
Cyclohexane	0.12 U	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	2.0	2.2	1000
Ethyl Acetate	0.23	0.34	730
Heptane	4.5	0.41	NS
Hexane	16 U	16 U	7300
Isopropanol	4.0	14	73000
m&p-Xylene	0.61	1.2	1000
Methyl tert-Butyl Ether (MTBE)	0.13 U	0.13 U	110
Methylene Chloride	1.2 U	1.2 U	1000
o-Xylene	0.25	0.43	1000
Propene	2.4 U	2.4 U	31000
Styrene	0.075	0.081	10000
Tetrahydrofuran	0.12	0.14	NS
Toluene	11	1.4	52000
Trichlorofluoromethane (Freon 11)	1.5	1.5	7300
Analysis	Fixed Gas	Fixed Gas	
Units	ppmv	ppmv	
Carbon Monoxide	10 U	10 U	NS
Carbon Dioxide	370	640	NS
Methane	8 U	8 U	NS
Analysis	Fixed Gas	Fixed Gas	
Units	%	%	
Nitrogen	75	74	NS
Oxygen	20	20	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

TABLE 2
June 2014 Air Sampling Results
Lee's Lane Landfill Site Investigation
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6502 Putman Ave				
CONFIDENTIAL				
Sample Number	239-0614-0046	Regional Screening Level	239-0614-0047	Regional Screening Level
Location	Unit 032	Soil Gas	Unit 032	Ambient Air
Sub Location	SS	Soil Gas	Ambient Air	Air
Matrix	Soil Gas			
Sample Date	6/26/2014		6/26/2014	
Analysis	VOC		VOC	
Analyte	µg/m³	µg/m³	µg/m³	µg/m³
1,2-Dichloroethane	0.073 U	11	0.073 U	1.1
1,3-Butadiene	0.040 U	8	0.52	0.81
1,4-Dichlorobenzene	14	25	13	2.5
Benzene	1.4	31	0.41	3.1
Carbon Tetrachloride	0.19	41	0.47	4.1
Chloroform	6.5	11	0.19	1.1
Ethylbenzene	1.5	110	0.36	11
Tetrachloroethylene	2.9	420	0.12 U	42
Trichloroethylene	0.097 U	21	0.66	2.1
1,2,4-Trimethylbenzene	2.9	730	0.39	73
1,1,1-Trichloroethane	0.27	520000	0.098 U	52000
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.70	3100000	0.66	310000
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.14	NS	0.12	NS
1,3,5-Trimethylbenzene	0.74	NS	0.1	NS
1,3-Dichlorobenzene	0.11 U	NS	0.11 U	NS
2-Butanone (MEK)	17	520000	6.3	52000
2-Hexanone (MBK)	2.1 J	3100	0.66 J	310
4-Ethyltoluene	0.43	NS	0.11	NS
4-Methyl-2-pentanone (MIBK)	2.1	310000	0.56	31000
Acetone	130 J	3200000	44 J	320000
Chlorobenzene	0.20	5200	0.083 U	520
Chloroethane	0.047 U	NS	0.047 U	NS
Chloromethane	0.37	9400	1.7	940
Cyclohexane	0.87	630000	0.12 U	63000
Dichlorodifluoromethane (Freon 12)	1.5 J	10000	2.3	1000
Ethyl Acetate	0.73	7300	0.55	730
Heptane	2.1	NS	0.4	NS
Hexane	4.9 U	73000	12 U	7300
Isopropanol	6.7 J	730000	9.8	73000
m&p-Xylene	3.4	10000	1.3	1000
Methyl tert-Butyl Ether (MTBE)	0.13 U	1100	0.13 U	110
Methylene Chloride	1.2 U	10000	1.4	1000
o-Xylene	1.9	10000	0.42	1000
Propene	3.4	310000	2.4 U	31000
Styrene	0.45	100000	0.16	10000
Tetrahydrofuran	0.40	NS	0.16	NS
Toluene	4.9	520000	2.7	52000
Trichlorofluoromethane (Freon 11)	1.9	73000	1.6	7300
Analysis	Fixed Gas		Fixed Gas	
Units	ppmv		ppmv	
Carbon Monoxide	20 U	NS	10 U	NS
Carbon Dioxide	37000	NS	380	NS
Methane	16 U	NS	8 U	NS
Analysis	Fixed Gas		Fixed Gas	
Units	%		%	
Nitrogen	73	NS	76	NS
Oxygen	13	NS	21	NS

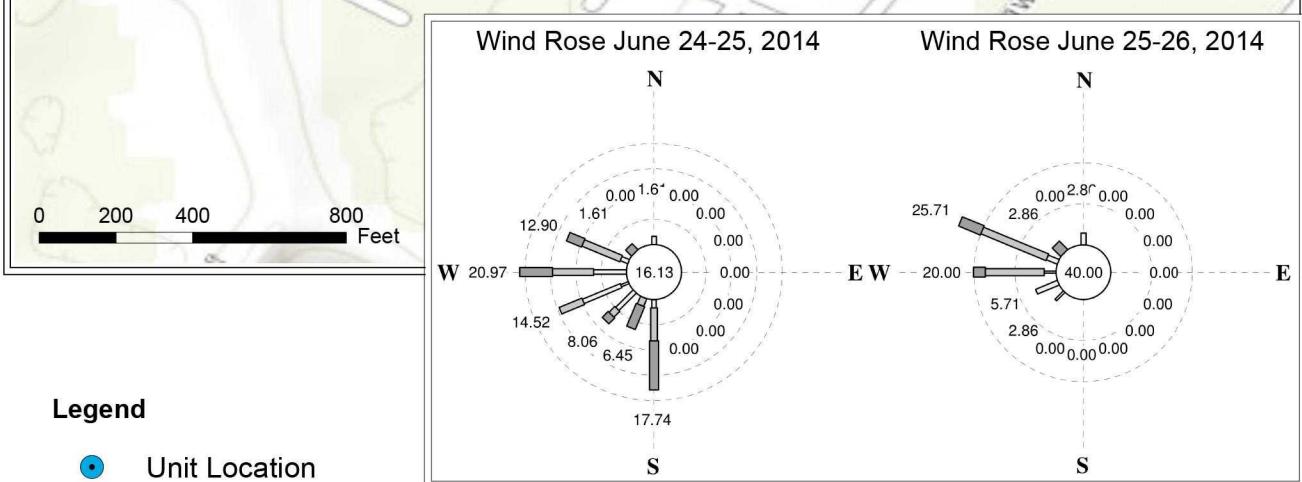
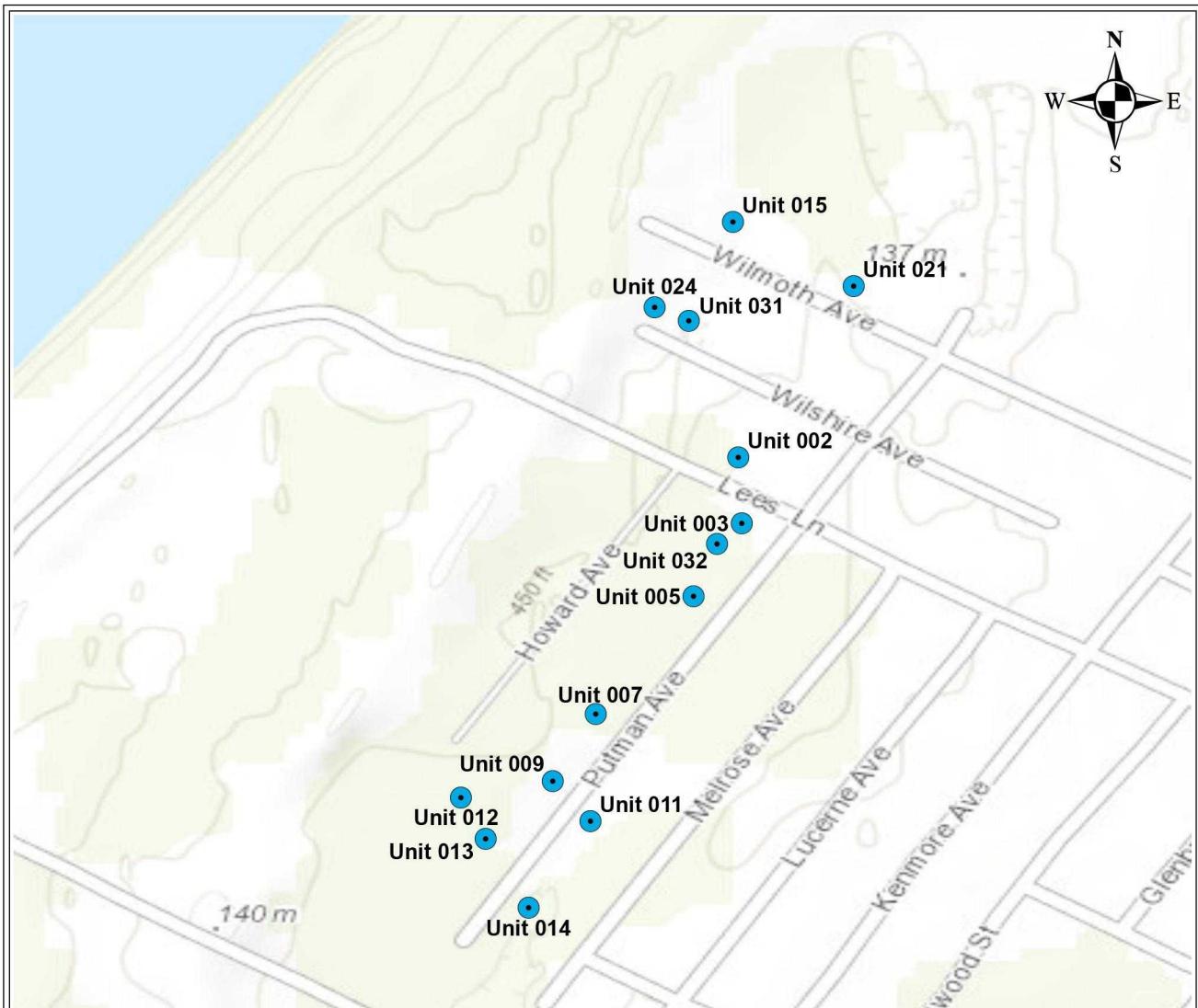
VOC - volatile organic compounds, SS - sub-slab

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified

FIGURES
Lee's Lane Landfill Site Investigation
Louisville, KY
October 2014



U.S. EPA Environmental Response Team
Scientific, Engineering, Response and Analytical Services
EP-W-09-031
W.A.# 0-239

Figure 1
Ambient Sample Locations
Lee's Lane Landfill
Louisville, Kentucky

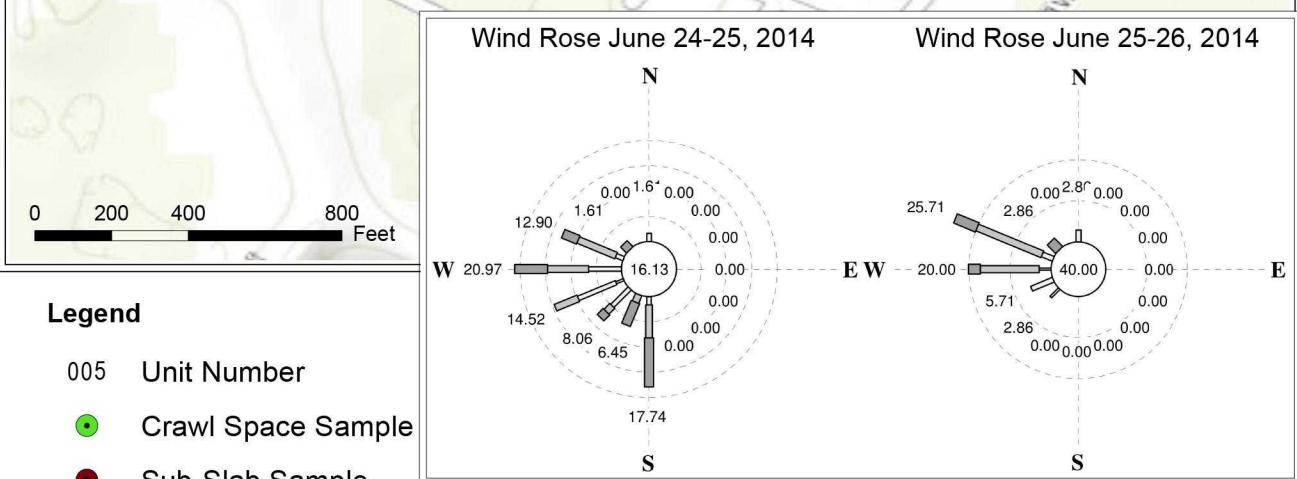
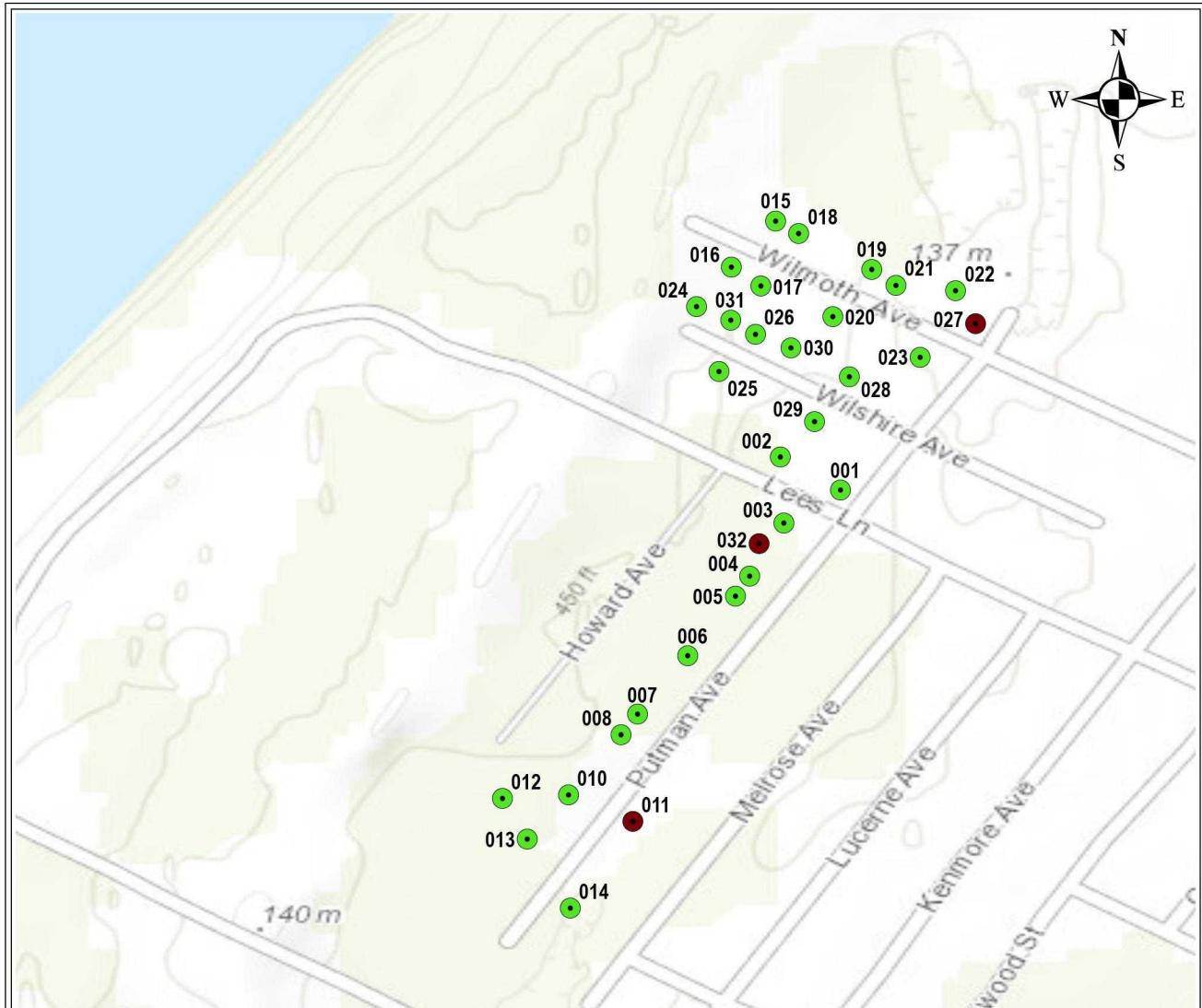


Figure 2
Sub-Slab and Crawl Space Sample Locations
Lee's Lane Landfill
Louisville, Kentucky

APPENDIX A
Regional Screening Levels
Lee's Lane Landfill Site Investigation
October 2014

Sample Number	Regional Screening Level	Regional Screening Level	
Location	Air	Soil Gas	
Sub Location			
Matrix			
Sample Date			
Analysis			
Units	µg/m³	µg/m³	
1,2-Dichloroethane	1.1	11	EPA Region 4
1,3-Butadiene	0.81	8.0	EPA Region 4
1,4-Dichlorobenzene	2.5	25	EPA Region 4
Benzene	3.1	31	EPA Region 4
Carbon Tetrachloride	4.1	41	EPA Region 4
Chloroform	1.1	11	EPA Region 4
Dibromochloromethane	1.04	10.4	EPA Region 4
Ethylbenzene	11	110	EPA Region 4
Tetrachloroethylene	42	420	EPA Region 4
Trichloroethylene	2.1	21	EPA Region 4
Vinyl chloride	1.61	16.1	EPA Region 4
1,2,4-Trimethylbenzene	73	730	10(-5)
1,1,1-Trichloroethane	52000	520000	10(-5)
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	310000	3100000	10(-5)
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	NS	NS	10(-5)
1,3,5-Trimethylbenzene	NS	NS	10(-5)
1,3-Dichlorobenzene	NS	NS	10(-5)
2-Butanone (MEK)	52000	520000	10(-5)
2-Hexanone (MBK)	310	3100	10(-5)
4-Ethyltoluene	NS	NS	10(-5)
4-Methyl-2-pentanone (MIBK)	31000	310000	10(-5)
Acetone	320000	3200000	10(-5)
Chlorobenzene	520	5200	10(-5)
Chloroethane	NS	NS	10(-5)
Chloromethane	940	9400	10(-5)
Cyclohexane	63000	630000	10(-5)
Dichlorodifluoromethane (Freon 12)	1000	10000	10(-5)
Ethyl Acetate	730	7300	10(-5)
Heptane	NS	NS	10(-5)
Hexane	7300	73000	10(-5)
Isopropanol	73000	730000	10(-5)
m&p-Xylene	1000	10000	10(-5)
Methyl tert-Butyl Ether (MTBE)	110	1100	10(-5)
Methylene Chloride	1000	10000	10(-5)
o-Xylene	1000	10000	10(-5)
Propene	31000	310000	10(-5)
Styrene	10000	100000	10(-5)
Tetrahydrofuran	NS	NS	10(-5)
Toluene	52000	520000	10(-5)
Trichlorofluoromethane (Freon 11)	7300	73000	10(-5)

NS-not specified

Site-specific**Resident Screening Levels (RSL) for Air**

ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),

ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,

Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),

Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Inhalation Unit Risk (ug/m ³) ⁻¹	Chronic RfC (mg/m ³)	Carcinogenic SL TR=1.0E-5 (ug/m ³)	Noncarcinogenic SL HI=1 (ug/m ³)	Indoor or Crawl Space Air Screening Level (ug/m ³)	Subsurface Soil Gas Screening Level (ug/m ³)
Dibromochloromethane	124-48-1	2.70E-05	-	1.04E+00	-	1.04E+00 ca	10
Dichlorobenzene, 1,4-	106-46-7	1.10E-05	8.00E-01	2.55E+00	8.34E+02	2.55E+00 ca	25
Dichloroethane, 1,2-	107-06-2	2.60E-05	7.00E-03	1.08E+00	7.30E+00	1.08E+00 ca**	11
Ethylbenzene	100-41-4	2.50E-06	1.00E+00	1.12E+01	1.04E+03	1.12E+01 ca*	110

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Site-specific**Resident Screening Levels (RSL) for Air**

ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),

ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,

Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),

Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Inhalation Unit Risk (ug/m ³) ⁻¹	Chronic RfC (mg/m ³)	Carcinogenic SL TR=1.0E-5 (ug/m ³)	Noncarcinogenic SL HI=1 (ug/m ³)	Indoor or Crawl Space Air Screening Level (ug/m ³)	Subsurface Soil Gas Screening Level (ug/m ³)
Benzene	71-43-2	7.80E-06	3.00E-02	3.12E+00	3.13E+01	3.12E+00 ca*	31
Butadiene, 1,3-	106-99-0	3.00E-05	2.00E-03	8.11E-01	2.09E+00	8.11E-01 ca**	8
Carbon Tetrachloride	56-23-5	6.00E-06	1.00E-01	4.06E+00	1.04E+02	4.06E+00 ca*	41
Chloroform	67-66-3	2.30E-05	9.77E-02	1.06E+00	1.02E+02	1.06E+00 ca*	11
Tetrachloroethylene	127-18-4	2.60E-07	4.00E-02	9.36E+01	4.17E+01	4.17E+01 nc	420
Trichloroethylene	79-01-6	4.10E-06	2.00E-03	2.34E+00	2.09E+00	2.09E+00 nc	21
Vinyl Chloride	75-01-4	4.40E-06	1.00E-01	1.61E+00	1.04E+02	1.61E+00 ca*	16

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APPENDIX B
Ohio River Gage Data
Lee's Lane Landfill Site Investigation
October 2014



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Site Map for the Nation

USGS 03294500 OHIO RIVER AT LOUISVILLE, KY

Available data for this site

Jefferson County, Kentucky

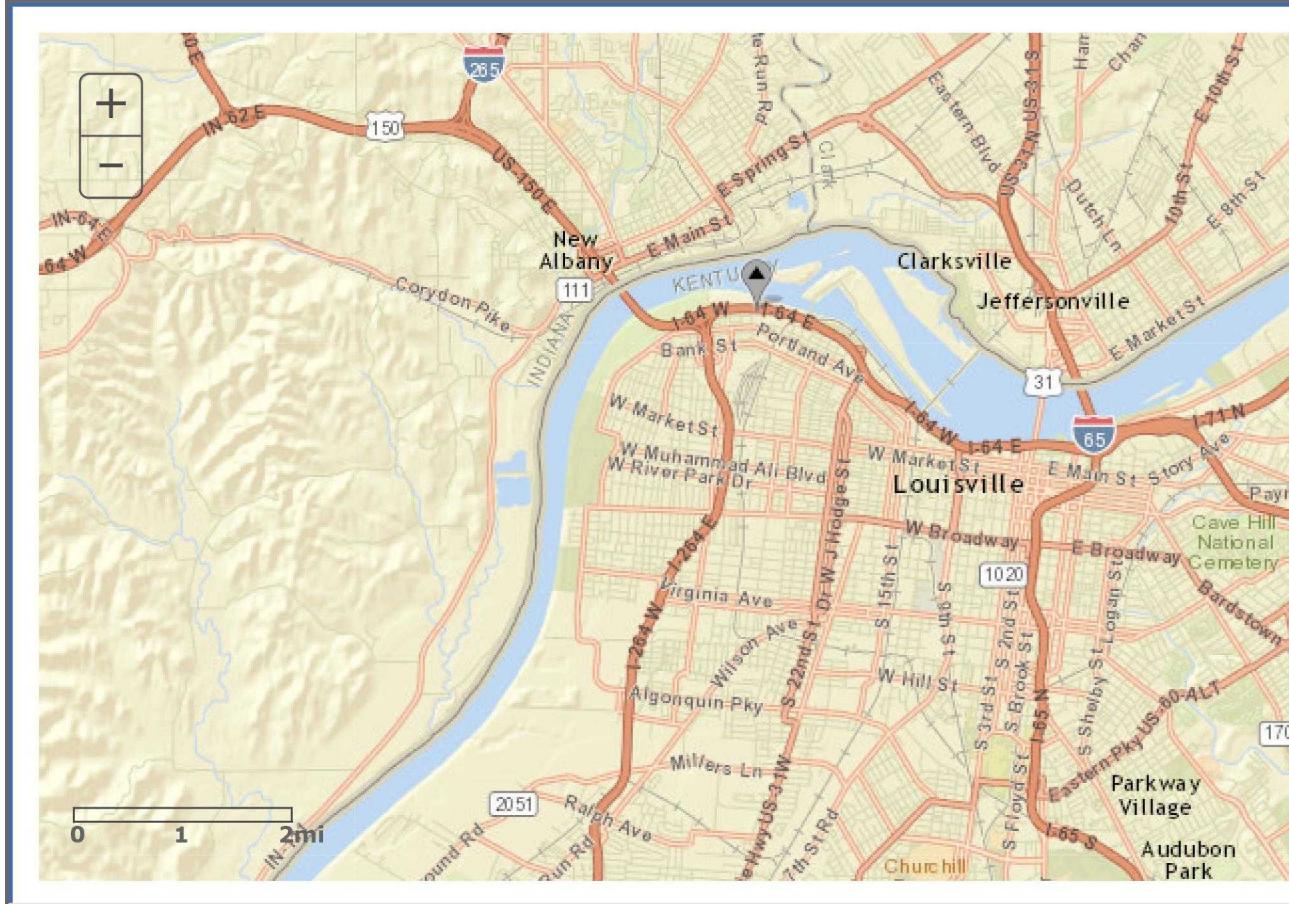
Hydrologic Unit Code 05140101

Latitude 38°16'49", Longitude 85°47'57" NAD27

Drainage area 91,170.0 square miles

Gage datum 373.18 feet above NGVD29

Location of the site in Kentucky



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Data Category:	Geographic Area:
Current Conditions <input checked="" type="checkbox"/>	United States <input type="button" value="▼"/>
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USGS 03294500 OHIO RIVER AT LOUISVILLE, KY

PROVISIONAL DATA SUBJECT TO REVISION

Available data for this site

Click to hidestation-specific text

This site is operated in cooperation with the



[United States Army Corps of Engineers - Louisville District](#)

and the



[Louisville-Jefferson County Metropolitan Sewer District](#)

[Boating safety tips](#)

The unit-value precipitation data for this station are temporary and will only be displayed for 120 days. Time series of unit-value or cumulative daily values will NOT be available for retrieval following the 120-day display period. Although the instrumentation is calibrated at least once/year, the temporary classification means that documented routine inspections and other quality assurance measures are not performed that would make the data acceptable for archival, retrieval, or future use in general scientific or interpretive studies.

This station managed by the Louisville District Office.

Available Parameters

- | | |
|---|-------------------------|
| <input type="checkbox"/> All 2 Available Parameters for this site | Available Period |
| <input checked="" type="checkbox"/> 00065 Gage height | 2014-06-11 2014-10-09 |
| <input checked="" type="checkbox"/> 00045 Precipitation | 2014-06-11 2014-10-09 |

Available Period

Output format

- Graph
 Graph w/ stats

- Graph w/o stats
- Graph w/ (up to 3) parms
- Table
- Tab-separated

Days (6) **Summary of all available data for this site**
Instantaneous-data availability statement

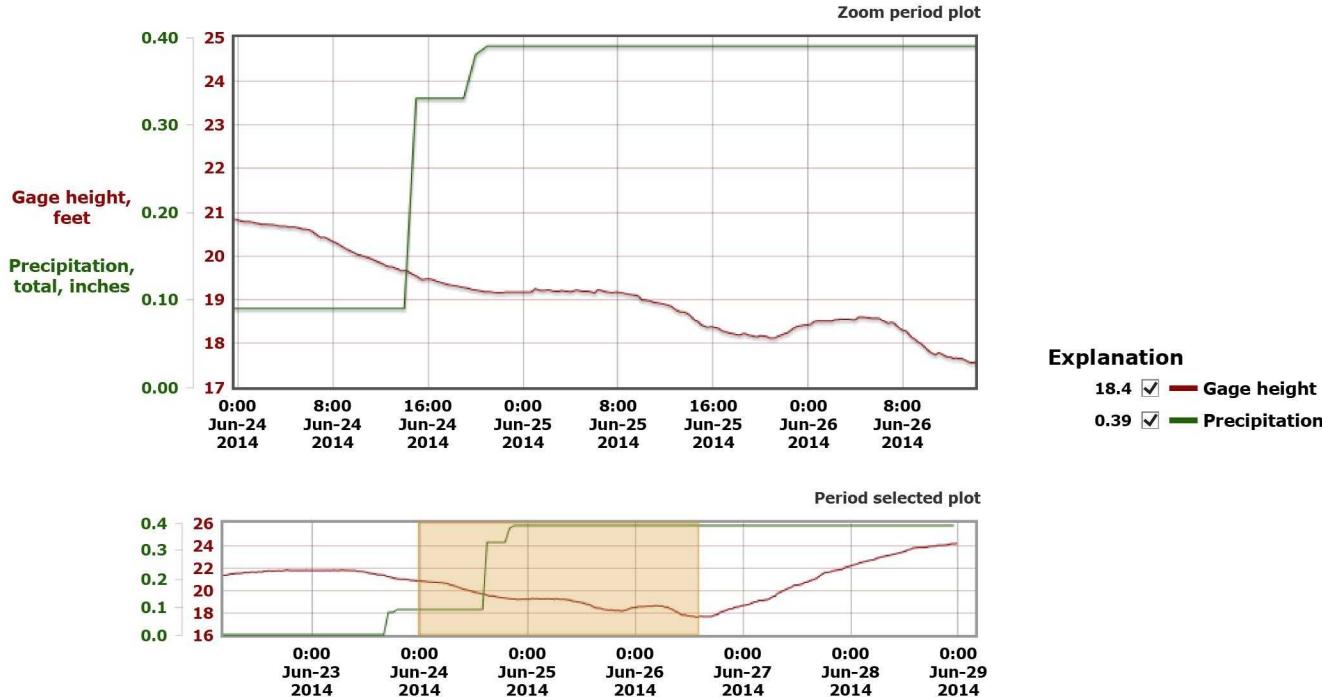
-- OR --

Begin date

2014-06-22

End date

2014-06-28

Thursday Jun 26 2014
14:56**USGS 03294500 OHIO RIVER AT LOUISVILLE, KY**

Enable tooltip



Enable approval and provisional periods

Tip: To reset zoom period to period selected, double left-click in the "Period selected" plot.

Tip: To zoom to a shorter period, left-click and drag over the period of interest in either graph.

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[U.S. Department of the Interior | U.S. Geological Survey](#)**Title: USGS Current Conditions for the Nation****URL: <http://waterdata.usgs.gov/nwis/uv?>**TAKE PRIDE
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APPENDIX C
Analytical Report Revision 1 – September 11, 2014
Lee's Lane Landfill Site Investigation
October 2014

ANALYTICAL REPORT

Prepared by
LOCKHEED MARTIN

Lee's Lane Landfill Site Assessment
Louisville, Kentucky

September 2014

EPA Work Assignment No. SERAS-239
LOCKHEED MARTIN Work Order No. SER00239
EPA Contract No. EP-W-09-031

Submitted to
G. Newhart
EPA/ERT

26 W. Martin Luther King Drive
Cincinnati, OH 45268

D. Killeen
QA/QC Officer

9/11/14
Date

Analysis by:
Con-Test Analytical

K. Taylor
Program Manager

9/11/14
Date

Prepared by:/Reviewed by:
Y. Mehra/A. LoSurdo,
R. Varsolona & J. Soroka



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Detailed Sample Information
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Case Narrative
Summary of Abbreviations

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Appendices will be furnished on request.



TESTING LABORATORIES INFORMATION

Analysis of VOCs in Air by EPA Method, “*Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*” (TO-15)

Analysis for CO, CO₂ and Methane in Air by EPA Method 3C, “*Determination of Carbon Dioxide, Methane, Nitrogen and Oxygen from Stationary Sources*”

Analysis for Nitrogen and Oxygen in Air by EPA Method 3C, “*Determination of Carbon Dioxide, Methane, Nitrogen and Oxygen from Stationary Sources*”

Con-Test Analytical Laboratory
39 Spruce Street
East Longmeadow MA 01208

All analyses were performed according to our NELAP-approved quality assurance program. The test results meet the requirements of the current NELAP standards, where applicable, except as noted in the laboratory case narrative provided. Results are intended to be considered in their entirety and apply only to those analyzed and reported herein.

Con-Test Analytical Laboratory is certified by the New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID # MA007 for analysis of VOCs and fixed gases (nitrogen, oxygen, CO₂ and methane) in air.



Detailed Sample Information

<u>Laboratory Sample #</u>	<u>Field Sample #</u>
14F1292-01	239-0614-0001
14F1292-02	239-0614-0002
14F1292-03	239-0614-0003
14F1292-04	239-0614-0004
14F1292-05	239-0614-0005
14F1292-06	239-0614-0006
14F1292-07	239-0614-0007
14F1292-08	239-0614-0008
14F1292-09	239-0614-0009
14F1292-10	239-0614-0010
14F1292-11	239-0614-0011
14F1292-12	239-0614-0012
14F1292-13	239-0614-0013
14F1292-14	239-0614-0014
14F1292-15	239-0614-0015
14F1292-16	239-0614-0016
14F1292-17	239-0614-0017
14F1292-18	239-0614-0018
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14F1292-40	239-0614-0048
14F1292-41	239-0614-0025
14F1292-42	239-0614-0026
14F1292-43	239-0614-0027
14F1292-44	239-0614-0028
14F1292-45	239-0614-0033
14F1292-46	239-0614-0034
14F1292-47	239-0614-0035
14F1292-48	239-0614-0036



Introduction

SERAS personnel, in response to WA# SERAS-239, provided analytical support for environmental samples collected from the Lee's Lane Landfill Site Assessment in Louisville, Kentucky as described in the following table. The support also included QA/QC, data review and preparation of an analytical report containing analytical and QA/QC results.

Chain of Custody #	Number of Samples	Sampling Date	Date Received	Date Analyzed	Matrix	Analysis/Method	Laboratory	Data Package
4-062614-114121-0001	4	06/25/14	06/27/14	06/29 - 07/14/14	Air	VOC/EPA Method TO-15	Con Test Analytical	Z 097
4-062614-114955-0002	4							
4-062614-115034-0003	4							
4-062614-115111-0004	3				Soil Gas			
	1							
4-062614-115208-0005	4				Air			
4-062614-115243-0006	4							
4-062614-115400-0008	4							
4-062614-115509-0010	3				Soil Gas			
	1							
4-062614-115541-0011	4				Air			
4-062614-115541-0011	4							
4-062614-122338-0012	2				Soil Gas			
	1							
	1				Trip Blank			
4-062614-115328-0007	4				Air			
4-062614-115433-0009	4							



Chain of Custody #	Number of Samples	Sampling Date	Date Received	Date Analyzed	Matrix	Analysis/Method	Laboratory	Data Package
4-062614-114121-0001	4	06/25/14	06/27/14	06/30 - 07/16/14	Air	CO, CO ₂ and Methane/EPA Method 3C	Con Test Analytical	Z 098
4-062614-114955-0002	4				Soil Gas			
4-062614-115034-0003	4				Air			
4-062614-115111-0004	3				Soil Gas			
	1				Air			
4-062614-115208-0005	4				Soil Gas			
4-062614-115243-0006	4				Air			
4-062614-115400-0008	4				Soil Gas			
4-062614-115509-0010	3				Air			
	1				Soil Gas			
4-062614-115541-0011	4				Trip Blank			
4-062614-115541-0011	4				Air			
4-062614-122338-0012	2							
	1							
	1							
4-062614-115328-0007	4							
4-062614-115433-0009	4							



Chain of Custody #	Number of Samples	Sampling Date	Date Received	Date Analyzed	Matrix	Analysis/Method	Laboratory	Data Package
4-062614-114121-0001	4	06/25/14	06/27/14	07/10-07/12/14	Air	Nitrogen and Oxygen/EPA Method 3C	Con Test Analytical	Z 099
4-062614-114955-0002	4				Soil Gas			
4-062614-115034-0003	4				Air			
4-062614-115111-0004	3				Soil Gas			
	1				Air			
4-062614-115208-0005	4				Soil Gas			
4-062614-115243-0006	4				Air			
4-062614-115400-0008	4				Soil Gas			
4-062614-115509-0010	3				Air			
	1				Soil Gas			
4-062614-115541-0011	4				Air			
4-062614-115541-0011	4				Soil Gas			
4-062614-122338-0012	2				Trip Blank			
	1				Air			
	1							
4-062614-115328-0007	4							
4-062614-115433-0009	4							

Case Narrative

Sampling was conducted as per the site-specific Quality Assurance Project Plan (QAPP) and analyzed by the analytical methods as stated in the QAPP. The laboratory reported the data to two significant figures. Any other representation of the data is the responsibility of the user. Data were validated using a Stage 4 validation done manually (S4VM) in accordance with the "Guidance for Labeling Externally Validated Data for Superfund Use." All data validation flags have been inserted into the results tables.

VOCs in Air Package Z 097

There were several compounds detected above the reporting limit (RL) during the SUMMA certification process. These compound RLs have been raised to the level found during the certification process.

During the SUMMA canister certification process acetone was detected above the RL in the canisters of sample numbers 239-0614-0001, 239-0614-0002, 239-0614-0004 through 239-0614-0007, 239-0614-0009 through 239-0614-0025, 239-0614-0027, 239-0614-0029, 239-0614-0031 through 239-0614-0039 through 239-0614-0042, 239-0614-0044, 239-0614-0045 and 239-0614-0047. Acetone was detected in samples 239-0614-0011, 239-0614-0029 and 239-0614-0032 at less than five times the certification result. Acetone



concentrations in these samples are qualified estimated (J) and may be biased high. The RLs are raised to the certification result.

Hexane was detected in the canister of sample 239-0614-0036 above the RL during the certification process. Hexane was detected in this sample at a concentration less than five times the certification result. Hexane in this sample is qualified estimated (J) and the RL raised to the certification result.

Benzene was detected in the canister of sample 239-0614-0033 above the RL during the certification process. Benzene was detected in this sample at a concentration less than five times the certification result. Benzene in this sample is qualified estimated (J) and the RL raised to the certification result.

2-Hexanone was detected in the canisters of samples 239-0614-0004, 239-0614-0010, 239-0614-0014 and 239-0614-0041 above the RL during the certification process. 2-Hexanone was detected in these samples at a concentration less than five times the certification result. 2-Hexanone in these samples is qualified estimated (J) and the RL raised to the certification result.

4-Methyl-2-pentanone (MIBK) was detected in the canisters of samples 239-0614-011, 239-0614-0019 and 239-0614-0032 above the RL during the certification process. MIBK was detected in these samples at a concentration less than five times the certification result. MIBK in these samples is qualified estimated (J) and the RL raised to the certification result.

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) was detected in the canisters of samples 239-0614-0024, 239-0614-0031, 239-0614-0035 and 239-0614-0044 above the RL during the certification process. Freon 113 was detected in these samples at a concentration less than five times the certification result. Freon 113 in these samples is qualified estimated (J) and the RL raised to the certification result.

1,2,4-Trimethylbenzene was detected in the canister of sample 239-0614-0041 above the RL during the certification process. 1,2,4-Trimethylbenzene was detected in this sample at a concentration less than five times the certification result. 1,2,4-Trimethylbenzene in this sample is qualified estimated (J) and the RL was raised to the certification result.

2-Hexanone, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane and vinyl acetate did not meet the percent difference (%D) criterion for the continuing calibration verification (CCV) of 06/29/14. 2-Hexanone results in samples 239-0614-0001 through 239-0614-0012 and 239-0614-0014 through 239-0614-0021 are qualified estimated (J).

Acetone was above the percent recovery criterion for the LCS of 06/29/14. Acetone results in samples 239-0614-0001 through 239-0614-0012 and 239-0614-0014 through 239-0614-0021 are qualified estimated (J).

1,2-Dichloropropane, 2-hexanone, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane and vinyl acetate were below the percent recovery criterion for the LCS of 06/29/14. The results for these compounds in samples 239-0614-0001 through 239-0614-0012 and 239-0614-0014 through 239-0614-0021 are qualified estimated either (J) or (UJ).

Acetone was above the percent recovery criterion for the LCS of 07/01/14. Acetone results in samples 239-0614-0013, 239-0614-0022 through 239-0614-0024, 239-0614-0029 through 239-0614-0032 and 239-0614-0037 through 239-0614-0047 are qualified estimated (J)

2-Hexanone and vinyl acetate were below the percent recovery criterion for the LCS of 07/01/14. The results for 2-hexanone and vinyl acetate in samples 239-0614-0013, 239-0614-0022 through 239-0614-0024, 239-



0614-0029 through 239-0614-0032 and 239-0614-0037 through 239-0614-0047 are qualified estimated either (J) or (UJ).

2-Hexanone, 1,1,2,2-tetrachloroethane and vinyl acetate were below the percent recovery criterion for the LCS of 07/02/14. The results for 2-hexanone, 1,1,2,2-tetrachloroethane and vinyl acetate in samples 239-0614-0048, 239-0614-0025 through 239-0614-0028 and 239-0614-0033 through 239-0614-0036 are qualified estimated either (J) or (UJ).

Dichlorofluoromethane (Freon12) and isopropyl alcohol were above the relative percent difference (RPD) criterion for the replicate analysis of sample 239-0614-0046. Freon 12 and isopropyl alcohol result in this sample is qualified estimated (J).

CO, CO₂ and Methane in Air Package Z 098

Carbon dioxide (CO₂) exceeded the RPD criterion for the duplicate analysis of samples 239-0614-0002, 239-0614-0013, 239-0614-0037, 239-0614-0039, 239-0614-0040, 239-0614-0048 and 239-0614-0033. The carbon dioxide results for these samples are qualified estimated (J).

Nitrogen and Oxygen in Air Package Z 099

Oxygen exceeded the RPD criterion for the duplicate analysis of sample 239-0614-0048. The oxygen result for this sample is qualified estimated (J).

The results presented in this report only relate to the samples analyzed. All results are intended to be considered in their entirety. The Environmental Response Team/Scientific, Engineering, Response and Analytical Services laboratory is not responsible for utilization of less than the complete report.



Summary of Abbreviations

BFB	Bromofluorobenzene
C	Centigrade
CLP	Contract Laboratory Program
COC	Chain of Custody
conc	concentration
cont	continued
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
D	(Surrogate Table) value is from a diluted sample and was not calculated
Dioxin	Polychlorinated dibenzo-p-dioxins (PCDD) and Polychlorinated dibenzofurans (PCDF)
DFTPP	Decafluorotriphenylphosphine
EMPC	Estimated maximum possible concentration
GC/MS	Gas Chromatography/ Mass Spectrometry
IS	Internal Standard
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MDA	Minimum Detectable Activity
MS (BS)	Matrix Spike (Blank Spike)
MSD (BSD)	Matrix Spike Duplicate (Blank Spike Duplicate)
MW	Molecular Weight
NA	Not Applicable or Not Available
NAD	Normalized Absolute Difference
NC	Not Calculated
NR	Not Requested/Not Reported
NS	Not Spiked
% D	Percent Difference
% REC	Percent Recovery
SOP	Standard Operating Procedure
ppbv	parts per billion by volume
ppm	parts per million
pptv	parts per trillion by volume
PQL	Practical Quantitation Limit
PAL	Performance Acceptance Limit
QA/QC	Quality Assurance/Quality Control
QL	Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SERAS	Scientific, Engineering, Response and Analytical Services
SIM	Selected Ion Monitoring
Sur	Surrogate
TIC	Tentatively Identified Compound
TCLP	Toxicity Characteristic Leaching Procedure
VOC	Volatile Organic Compound
*	Value exceeds the acceptable QC limits

m ³	cubic meter	g	gram	kg	kilogram	L	liter
µg	microgram	µL	microliter	mg	milligram	mL	milliliter
ng	nanogram	pg	picogram	pCi	picocurie	s	sigma

Data Validation Flags

J	Value is estimated	R	Value is unusable
J+	Value is estimated high (metals only)	U	Not detected
J-	Value is estimated low (metals only)	UJ	Not detected and RL is estimated
N	Presumptively present (Aroclors only)		

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Table 1.1a Results of the Analysis for VOC (ppbv) in Air
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Laboratory Sample Number	B100142-BLK1	14F1292-01	14F1292-02	14F1292-03
Sample Number	6/29/2014	239-0614-0001	239-0614-0002	239-0614-0003
Sample Location	Method Blank	Unit 001	Unit 002	Unit 003
Sublocation		Crawl Space	Crawl Space	Crawl Space
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Acetone	U 1.0	14 J 2.4	22 J 2.9	22 J 1.4
Benzene	U 0.013	0.069	0.018	0.067 0.018
Bromofom	U 0.012	U 0.018	U 0.018	U 0.018
Bromomethane	U 0.025	U 0.035	U 0.035	U 0.035
1,3-Butadiene	U 0.013	U 0.018	U 0.018	U 0.018
2-Butanone (MEK)	U 1.0	U 1.4	2.5 1.4	1.7 1.4
Carbon Tetrachloride	U 0.012	0.066	0.018	0.074 0.018
Chlorobenzene	U 0.012	U 0.018	U 0.018	U 0.018
Chloroethane	U 0.012	0.018	0.018	0.032 0.018
Chloroform	U 0.012	0.031	0.018	0.11 0.018
Chloromethane	U 0.050	0.42	0.070	0.30 0.070
Cyclohexane	U 0.025	U 0.035	U 0.035	U 0.035
Dibromochloromethane	U 0.012	U 0.018	U 0.018	U 0.018
1,2-Dibromoethane (EDB)	U 0.012	U 0.018	U 0.018	U 0.018
1,2-Dichlorobenzene	U 0.012	U 0.018	U 0.018	U 0.018
1,3-Dichlorobenzene	U 0.012	U 0.018	U 0.018	U 0.018
1,4-Dichlorobenzene	U 0.012	0.033	0.018	0.028 0.018
Dichlorodifluoromethane (Freon 12)	U 0.012	0.42	0.018	0.43 0.018
1,1-Dichloroethane	U 0.012	U 0.018	U 0.018	U 0.018
1,2-Dichloroethane	U 0.012	U 0.018	0.11 0.018	0.37 0.018
1,1-Dichloroethylene	U 0.012	U 0.018	U 0.018	U 0.018
cis-1,2-Dichloroethylene	U 0.012	U 0.018	U 0.018	U 0.018
trans-1,2-Dichloroethylene	U 0.012	U 0.018	U 0.018	U 0.018
1,2-Dichloropropane	U 0.012	U J 0.018	U J 0.018	U J 0.018
cis-1,3-Dichloropropene	U 0.012	U 0.018	U 0.018	U 0.018
trans-1,3-Dichloropropene	U 0.012	U 0.018	U 0.018	U 0.018
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U 0.012	U 0.018	U 0.018	U 0.018
1,4-Dioxane	U 0.25	U 0.35	U 0.35	U 0.35
Ethyl Acetate	U 0.025	U 0.035	0.74 0.035	0.088 0.035
Ethylbenzene	U 0.012	0.039	0.018	0.023 0.018
4-Ethyltoluene	U 0.012	U 0.018	0.019 0.018	U 0.018
Heptane	U 0.012	0.058	0.018	0.082 0.018
Hexane	U 1.0	U 4.2	U 1.4	U 1.4
2-Hexanone (MBK)	U 0.012	0.095 J 0.018	0.21 J 0.018	0.18 J 0.018
Isopropanol	U 1.0	9.6 1.4	15 1.4	14 1.4
Methyl tert-Butyl Ether (MTBE)	U 0.025	U 0.018	U 0.018	U 0.018
Methylene Chloride	U 0.25	U 0.35	U 0.35	U 0.35
4-Methyl-2-pentanone (MIBK)	U 0.012	0.12 0.018	0.24 0.018	0.12 0.018
Propene	U 1.0	U 1.4	U 1.4	U 1.4
Styrene	U 0.012	0.022	0.018	0.036 0.018
1,1,2,2-Tetrachloroethane	U 0.012	U J 0.018	U J 0.018	U J 0.018
Tetrachloroethylene	U 0.012	0.034	0.018	0.090 0.018
Tetrahydrofuran	U 0.012	0.11	0.018	0.17 0.018
Toluene	U 0.012	0.43	0.018	0.93 0.018
1,1,1-Trichloroethane	U 0.012	U 0.018	U 0.018	U 0.018
1,1,2-Trichloroethane	U 0.012	U J 0.018	U J 0.018	U J 0.018
Trichloroethylene	U 0.012	0.020	0.018	U 0.018
Trichlorofluoromethane (Freon 11)	U 0.012	0.24	0.018	0.28 0.018
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	U 0.012	0.072	0.018	0.076 0.018
1,2,4-Trimethylbenzene	U 0.012	0.039	0.018	0.062 0.018
1,3,5-Trimethylbenzene	U 0.012	U 0.018	U 0.018	U 0.018
Vinyl Acetate	U 0.50	U J 0.70	U J 0.70	U J 0.70
Vinyl Chloride	U 0.012	U 0.018	U 0.018	U 0.018
m&p-Xylene	U 0.050	0.14 0.070	0.21 0.070	U 0.070
o-Xylene	U 0.012	0.048	0.018	0.063 0.018

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Table 1.1a Results of the Analysis for VOC (ppbv) in Air
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Laboratory Sample Number	14F1292-04		14F1292-05		14F1292-06		14F1292-07	
Sample Number	239-0614-0004		239-0614-0005		239-0614-0006		239-0614-0007	
Sample Location	Unit 004		Unit 005		Unit 005		Unit 006	
Sublocation	Crawl Space		Crawl Space		Ambient		Crawl Space	
Analyte	Result ppbv	RL ppbv						
Acetone	700	J 40	16	J 2.9	19	J 3.8	17	J 3.4
Benzene	0.57	0.018	0.14	0.018	0.076	0.018	0.14	0.018
Bromoform	U	0.018	U	0.018	U	0.018	U	0.018
Bromomethane	U	0.035	U	0.035	U	0.035	U	0.035
1,3-Butadiene	U	0.018	0.19	0.018	U	0.018	0.26	0.018
2-Butanone (MEK)	3.6	1.4	2.8	1.4	2.4	1.4	2.0	1.4
Carbon Tetrachloride	0.063	0.018	0.067	0.018	0.067	0.018	0.065	0.018
Chlorobenzene	U	0.018	U	0.018	U	0.018	U	0.018
Chloroethane	0.048	0.018	U	0.018	U	0.018	U	0.018
Chloroform	0.13	0.018	0.37	0.018	0.030	0.018	0.089	0.018
Chloromethane	0.48	0.070	0.40	0.070	0.62	0.070	0.53	0.070
Cyclohexane	0.73	0.035	U	0.035	U	0.035	U	0.035
Dibromochloromethane	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dibromoethane (EDB)	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dichlorobenzene	U	0.018	U	0.018	U	0.018	U	0.018
1,3-Dichlorobenzene	0.024	0.018	U	0.018	U	0.018	U	0.018
1,4-Dichlorobenzene	0.38	0.018	0.020	0.018	U	0.018	U	0.018
Dichlorodifluoromethane (Freon 12)	0.42	0.018	0.41	0.018	0.43	0.018	0.42	0.018
1,1-Dichloroethane	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dichloroethane	0.037	0.018	0.13	0.018	U	0.018	U	0.018
1,1-Dichloroethylene	U	0.018	U	0.018	U	0.018	U	0.018
cis-1,2-Dichloroethylene	U	0.018	U	0.018	U	0.018	U	0.018
trans-1,2-Dichloroethylene	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dichloropropane	U J	0.018						
cis-1,3-Dichloropropene	U	0.018	U	0.018	U	0.018	U	0.018
trans-1,3-Dichloropropene	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U	0.018	U	0.018	U	0.018	U	0.018
1,4-Dioxane	U	0.35	U	0.35	U	0.35	U	0.35
Ethyl Acetate	0.70	0.035	0.11	0.035	0.069	0.035	0.098	0.035
Ethylbenzene	2.3	0.018	0.084	0.018	0.037	0.018	0.041	0.018
4-Ethyltoluene	3.0	0.018	0.018	0.018	U	0.018	U	0.018
Heptane	8.5	0.018	0.080	0.018	0.079	0.018	0.046	0.018
Hexane	U	1.5	U	1.5	U	1.4	U	1.5
2-Hexanone (MBK)	0.31	J 0.080	0.38	J 0.064	0.22	J 0.018	0.14	J 0.018
Isopropanol	8.4	1.4	7.3	1.4	13	1.4	7.3	1.4
Methyl tert-Butyl Ether (MTBE)	U	0.018	U	0.018	U	0.018	U	0.018
Methylene Chloride	0.59	0.35	U	0.35	U	0.35	U	0.35
4-Methyl-2-pentanone (MIBK)	U	0.070	0.26	0.043	0.15	0.018	0.27	0.018
Propene	U	1.4	1.5	1.4	U	1.4	U	1.4
Styrene	0.18	0.018	0.079	0.018	0.025	0.018	0.056	0.018
1,1,2,2-Tetrachloroethane	U J	0.018						
Tetrachloroethylene	0.20	0.018	0.034	0.018	0.027	0.018	0.029	0.018
Tetrahydrofuran	0.16	0.018	0.093	0.018	0.13	0.018	0.69	0.018
Toluene	780	0.50	0.60	0.018	0.27	0.018	0.31	0.018
1,1,1-Trichloroethane	U	0.018	U	0.018	U	0.018	U	0.018
1,1,2-Trichloroethane	U J	0.018						
Trichloroethylene	0.034	0.018	U	0.018	0.020	0.018	U	0.018
Trichlorofluoromethane (Freon 11)	0.33	0.018	0.97	0.018	0.27	0.018	0.30	0.018
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.081	0.018	0.078	0.018	0.076	0.018	0.078	0.018
1,2,4-Trimethylbenzene	4.2	0.018	0.086	0.018	0.045	0.018	0.051	0.018
1,3,5-Trimethylbenzene	2.5	0.018	0.026	0.018	U	0.018	U	0.018
Vinyl Acetate	U J	0.70						
Vinyl Chloride	U	0.018	U	0.018	U	0.018	U	0.018
m&p-Xylene	8.4	0.070	0.25	0.070	0.13	0.070	0.13	0.070
o-Xylene	2.7	0.018	0.090	0.018	0.050	0.018	0.044	0.018

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Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Laboratory Sample Number	14F1292-08	14F1292-09	14F1292-10	14F1292-11
Sample Number	239-0614-0008	239-0614-0009	239-0614-0010	239-0614-0011
Sample Location	Unit 007	Unit 008	Unit 007	Unit 009
Sublocation	Crawl Space	Crawl Space	Ambient	Ambient
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Acetone	110 J	1.4	77 J	1.8
Benzene	1.3	0.018	0.14	0.018
Bromoform	U	0.018	U	0.018
Bromomethane	U	0.035	U	0.035
1,3-Butadiene	3.1	0.018	0.19	0.018
2-Butanone (MEK)	3.0	1.4	9.4	1.4
Carbon Tetrachloride	0.065	0.018	0.066	0.018
Chlorobenzene	U	0.018	U	0.018
Chloroethane	0.055	0.018	0.022	0.018
Chloroform	0.35	0.018	0.076	0.018
Chloromethane	2.3	0.070	0.67	0.070
Cyclohexane	U	0.035	U	0.035
Dibromochloromethane	U	0.018	U	0.018
1,2-Dibromoethane (EDB)	U	0.018	U	0.018
1,2-Dichlorobenzene	U	0.018	U	0.018
1,3-Dichlorobenzene	0.022	0.018	U	0.018
1,4-Dichlorobenzene	0.15	0.018	U	0.018
Dichlorodifluoromethane (Freon 12)	0.43	0.018	0.43	0.018
1,1-Dichloroethane	U	0.018	U	0.018
1,2-Dichloroethane	0.17	0.018	0.078	0.018
1,1-Dichloroethylene	U	0.018	U	0.018
cis-1,2-Dichloroethylene	U	0.018	U	0.018
trans-1,2-Dichloroethylene	U	0.018	U	0.018
1,2-Dichloropropane	U J	0.018	U J	0.018
cis-1,3-Dichloropropene	U	0.018	U	0.018
trans-1,3-Dichloropropene	U	0.018	U	0.018
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U	0.018	U	0.018
1,4-Dioxane	U	0.35	U	0.35
Ethyl Acetate	0.95	0.035	0.38	0.035
Ethylbenzene	0.40	0.018	0.42	0.018
4-Ethyltoluene	0.040	0.018	0.046	0.018
Heptane	0.22	0.018	0.14	0.018
Hexane	U	1.4	U	1.4
2-Hexanone (MBK)	0.27 J	0.018	0.27 J	0.018
Isopropanol	9.3	1.4	33	1.4
Methyl tert-Butyl Ether (MTBE)	U	0.018	0.027	0.018
Methylene Chloride	U	0.35	U	0.35
4-Methyl-2-pentanone (MIBK)	0.36	0.018	0.26	0.018
Propene	13	1.4	2.0	1.4
Styrene	0.29	0.018	1.3	0.018
1,1,2-Tetrachloroethane	U J	0.018	U J	0.018
Tetrachloroethylene	0.12	0.018	0.027	0.018
Tetrahydrofuran	0.23	0.018	27	0.018
Toluene	2.8	0.018	0.52	0.018
1,1,1-Trichloroethane	U	0.018	U	0.018
1,1,2-Trichloroethane	U J	0.018	U J	0.018
Trichloroethylene	U	0.018	U	0.018
Trichlorofluoromethane (Freon 11)	2.1	0.018	0.27	0.018
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.081	0.018	0.075	0.018
1,2,4-Trimethylbenzene	0.11	0.018	0.17	0.018
1,3,5-Trimethylbenzene	0.029	0.018	0.053	0.018
Vinyl Acetate	U J	0.70	U J	0.70
Vinyl Chloride	U	0.018	U	0.018
m&p-Xylene	1.0	0.070	1.6	0.070
o-Xylene	0.23	0.018	0.63	0.018

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Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
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Laboratory Sample Number	14F1292-12	14F1292-14	14F1292-15	14F1292-16
Sample Number	239-0614-0012	239-0614-0014	239-0614-0015	239-0614-0016
Sample Location	Unit 010	Unit 011	Unit 012	Unit 012
Sublocation	Crawl Space	Ambient	Crawl Space	CS-Co
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Acetone	19 J 1.7		19 J 2.7	17 J 2.2
Benzene	0.054 0.018	0.064 0.018	0.087 0.018	0.072 0.018
Bromoform	U 0.018	U 0.018	U 0.018	U 0.018
Bromomethane	U 0.035	U 0.035	U 0.035	U 0.035
1,3-Butadiene	U 0.018	U 0.018	U 0.018	U 0.018
2-Butanone (MEK)	2.5 1.4	1.8 1.4	2.3 1.4	2.5 1.4
Carbon Tetrachloride	0.067 0.018	0.065 0.018	0.067 0.018	0.070 0.018
Chlorobenzene	U 0.018	U 0.018	U 0.018	U 0.018
Chloroethane	U 0.018	U 0.018	U 0.018	U 0.018
Chloroform	0.048 0.018	0.036 0.018	0.072 0.018	0.070 0.018
Chloromethane	0.50 0.070	0.65 0.070	0.38 0.070	0.40 0.070
Cyclohexane	U 0.035	U 0.035	0.10 0.035	U 0.035
Dibromochloromethane	U 0.018	U 0.018	U 0.018	U 0.018
1,2-Dibromoethane (EDB)	U 0.018	U 0.018	U 0.018	U 0.018
1,2-Dichlorobenzene	U 0.018	U 0.018	U 0.018	U 0.018
1,3-Dichlorobenzene	U 0.018	U 0.018	U 0.018	U 0.018
1,4-Dichlorobenzene	U 0.018	U 0.018	0.032 0.018	0.035 0.018
Dichlorodifluoromethane (Freon 12)	0.41 0.018	0.42 0.018	0.42 0.018	0.43 0.018
1,1-Dichloroethane	U 0.018	U 0.018	U 0.018	U 0.018
1,2-Dichloroethane	0.018 0.018	U 0.018	0.069 0.018	0.073 0.018
1,1-Dichloroethylene	U 0.018	U 0.018	U 0.018	U 0.018
cis-1,2-Dichloroethylene	U 0.018	U 0.018	U 0.018	U 0.018
trans-1,2-Dichloroethylene	U 0.018	U 0.018	U 0.018	U 0.018
1,2-Dichloropropane	U J 0.018	U J 0.018	U J 0.018	U J 0.018
cis-1,3-Dichloropropene	U 0.018	U 0.018	U 0.018	U 0.018
trans-1,3-Dichloropropene	U 0.018	U 0.018	U 0.018	U 0.018
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U 0.018	U 0.018	U 0.018	0.018 0.018
1,4-Dioxane	U 0.35	U 0.35	U 0.35	U 0.35
Ethyl Acetate	0.15 0.035	0.071 0.035	U 0.035	U 0.035
Ethylbenzene	0.020 0.018	0.069 0.018	0.027 0.018	0.029 0.018
4-Ethyltoluene	U 0.018	U 0.018	U 0.018	U 0.018
Heptane	0.046 0.018	0.055 0.018	0.061 0.018	0.074 0.018
Hexane	U 1.4	U 1.7	U 1.4	U 1.4
2-Hexanone (MBK)	0.29 J 0.018	0.20 J 0.052	0.23 J 0.018	0.31 J 0.018
Isopropanol	7.6 1.4	18 1.4	2.4 1.4	1.9 1.4
Methyl tert-Butyl Ether (MTBE)	U 0.018	U 0.018	U 0.018	U 0.018
Methylene Chloride	U 0.35	U 0.35	U 0.35	U 0.35
4-Methyl-2-pentanone (MIBK)	0.20 0.018	0.20 0.018	0.24 0.018	0.24 0.018
Propene	U 1.4	U 1.4	U 1.4	U 1.4
Styrene	0.041 0.018	0.041 0.018	0.029 0.018	0.040 0.018
1,1,2-Tetrachloroethane	U J 0.018	U J 0.018	U J 0.018	U J 0.018
Tetrachloroethylene	0.032 0.018	0.032 0.018	0.025 0.018	0.025 0.018
Tetrahydrofuran	0.095 0.018	0.081 0.018	0.18 0.018	0.15 0.018
Toluene	0.17 0.018	0.21 0.018	2.3 0.018	2.5 0.018
1,1,1-Trichloroethane	U 0.018	U 0.018	U 0.018	U 0.018
1,1,2-Trichloroethane	U J 0.018	U J 0.018	U J 0.018	U J 0.018
Trichloroethylene	U 0.018	U 0.018	U 0.018	U 0.018
Trichlorofluoromethane (Freon 11)	0.24 0.018	0.24 0.018	0.25 0.018	0.25 0.018
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.074 0.018	0.075 0.018	0.072 0.018	0.075 0.018
1,2,4-Trimethylbenzene	0.019 0.018	0.028 0.018	0.026 0.018	0.029 0.018
1,3,5-Trimethylbenzene	U 0.018	U 0.018	U 0.018	U 0.018
Vinyl Acetate	U J 0.70	U J 0.70	U J 0.70	U J 0.70
Vinyl Chloride	U 0.018	U 0.018	U 0.018	U 0.018
m&p-Xylene	U 0.070	0.32 0.070	0.085 0.070	0.090 0.070
o-Xylene	0.024 0.018	0.072 0.018	0.032 0.018	0.035 0.018

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Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Laboratory Sample Number	14F1292-17	14F1292-18	14F1292-19	14F1292-20
Sample Number	239-0614-0017	239-0614-0018	239-0614-0019	239-0614-0020
Sample Location	Unit 012	Unit 013	Unit 013	Unit 014
Sublocation	Ambient	Crawl Space	Ambient	Crawl Space
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Acetone	17 J 1.4		21 J 3.2	
Benzene	0.13 0.018	0.059 0.018	0.051 0.018	0.43 0.018
Bromoform	U 0.018	U 0.018	U 0.018	U 0.018
Bromomethane	U 0.035	U 0.035	U 0.035	U 0.035
1,3-Butadiene	0.19 0.018	U 0.018	U 0.018	1.1 0.018
2-Butanone (MEK)	2.3 1.4	1.5 1.4	2.1 1.4	2.3 1.4
Carbon Tetrachloride	0.067 0.018	0.067 0.018	0.066 0.018	0.086 0.018
Chlorobenzene	U 0.018	U 0.018	U 0.018	U 0.018
Chloroethane	U 0.018	U 0.018	U 0.018	0.032 0.018
Chloroform	0.039 0.018	0.37 0.018	0.039 0.018	0.32 0.018
Chloromethane	0.72 0.070	0.33 0.070	0.59 0.070	0.94 0.070
Cyclohexane	U 0.035	0.14 0.035	U 0.035	0.20 0.035
Dibromochloromethane	U 0.018	U 0.018	U 0.018	U 0.018
1,2-Dibromoethane (EDB)	U 0.018	U 0.018	U 0.018	U 0.018
1,2-Dichlorobenzene	U 0.018	U 0.018	U 0.018	U 0.018
1,3-Dichlorobenzene	U 0.018	U 0.018	U 0.018	U 0.018
1,4-Dichlorobenzene	U 0.018	U 0.018	U 0.018	0.019 0.018
Dichlorodifluoromethane (Freon 12)	0.44 0.018	0.44 0.018	0.42 0.018	0.42 0.018
1,1-Dichloroethane	U 0.018	U 0.018	U 0.018	U 0.018
1,2-Dichloroethane	U 0.018	U 0.018	U 0.018	0.15 0.018
1,1-Dichloroethylene	U 0.018	U 0.018	U 0.018	U 0.018
cis-1,2-Dichloroethylene	U 0.018	U 0.018	U 0.018	U 0.018
trans-1,2-Dichloroethylene	U 0.018	U 0.018	U 0.018	U 0.018
1,2-Dichloropropane	U J 0.018	U J 0.018	U J 0.018	U J 0.018
cis-1,3-Dichloropropene	U 0.018	U 0.018	U 0.018	U 0.018
trans-1,3-Dichloropropene	U 0.018	U 0.018	U 0.018	U 0.018
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U 0.018	U 0.018	U 0.018	U 0.018
1,4-Dioxane	U 0.35	U 0.35	U 0.35	U 0.35
Ethyl Acetate	0.074 0.035	0.15 0.035	0.048 0.035	1.4 0.035
Ethylbenzene	0.041 0.018	0.031 0.018	U 0.018	0.14 0.018
4-Ethyltoluene	U 0.018	U 0.018	U 0.018	0.028 0.018
Heptane	0.058 0.018	0.17 0.018	0.029 0.018	0.34 0.018
Hexane	U 1.4	U 1.7	U 1.5	U 1.7
2-Hexanone (MBK)	0.24 J 0.018	0.13 J 0.018	0.24 J 0.048	0.10 J 0.018
Isopropanol	1.9 1.4	14 1.4	2.9 1.4	3.8 1.4
Methyl tert-Butyl Ether (MTBE)	U 0.018	U 0.018	U 0.018	U 0.018
Methylene Chloride	U 0.35	U 0.35	U 0.35	1.4 0.35
4-Methyl-2-pentanone (MIBK)	0.24 0.018	U 0.018	0.17 J 0.039	0.16 0.018
Propene	U 1.4	U 1.4	U 1.4	4.9 1.4
Styrene	0.049 0.018	0.029 0.018	0.027 0.018	0.19 0.018
1,1,2,2-Tetrachloroethane	U J 0.018	U J 0.018	U J 0.018	U J 0.018
Tetrachloroethylene	0.023 0.018	0.036 0.018	0.025 0.018	0.034 0.018
Tetrahydrofuran	0.10 0.018	0.098 0.018	0.079 0.018	1.8 0.018
Toluene	0.37 0.018	0.33 0.018	0.10 0.018	1.8 0.018
1,1,1-Trichloroethane	U 0.018	U 0.018	U 0.018	U 0.018
1,1,2-Trichloroethane	U J 0.018	U J 0.018	U J 0.018	U J 0.018
Trichloroethylene	0.018 0.018	U 0.018	U 0.018	U 0.018
Trichlorofluoromethane (Freon 11)	0.25 0.018	0.25 0.018	0.24 0.018	0.41 0.018
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.078 0.018	0.076 0.018	0.073 0.018	0.074 0.018
1,2,4-Trimethylbenzene	0.034 0.018	0.018 0.018	U 0.018	0.14 0.018
1,3,5-Trimethylbenzene	U 0.018	U 0.018	U 0.018	0.044 0.018
Vinyl Acetate	U J 0.70	U J 0.70	U J 0.70	U J 0.70
Vinyl Chloride	U 0.018	U 0.018	U 0.018	U 0.018
m&p-Xylene	0.12 0.070	0.12 0.070	U 0.070	0.49 0.070
o-Xylene	0.044 0.018	0.037 0.018	U 0.018	0.16 0.018

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Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
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Laboratory Sample Number	14F1292-21	
Sample Number	239-0614-0021	
Sample Location	Unit 014	
Sublocation	Ambient	
Analyte	Result ppbv	RL ppbv
Acetone	20 J	1.4
Benzene	0.11	0.018
Bromoform	U	0.018
Bromomethane	U	0.035
1,3-Butadiene	U	0.018
2-Butanone (MEK)	3.6	1.4
Carbon Tetrachloride	0.064	0.018
Chlorobenzene	U	0.018
Chloroethane	U	0.018
Chloroform	0.040	0.018
Chloromethane	0.61	0.070
Cyclohexane	U	0.035
Dibromochloromethane	U	0.018
1,2-Dibromoethane (EDB)	U	0.018
1,2-Dichlorobenzene	U	0.018
1,3-Dichlorobenzene	U	0.018
1,4-Dichlorobenzene	U	0.018
Dichlorodifluoromethane (Freon 12)	0.43	0.018
1,1-Dichloroethane	U	0.018
1,2-Dichloroethane	U	0.018
1,1-Dichloroethylene	U	0.018
cis-1,2-Dichloroethylene	U	0.018
trans-1,2-Dichloroethylene	U	0.018
1,2-Dichloropropane	U J	0.018
cis-1,3-Dichloropropene	U	0.018
trans-1,3-Dichloropropene	U	0.018
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U	0.018
1,4-Dioxane	U	0.35
Ethyl Acetate	0.091	0.035
Ethylbenzene	0.055	0.018
4-Ethyltoluene	U	0.018
Heptane	0.069	0.018
Hexane	U	1.4
2-Hexanone (MBK)	0.39 J	0.018
Isopropanol	6.7	1.4
Methyl tert-Butyl Ether (MTBE)	U	0.018
Methylene Chloride	U	0.35
4-Methyl-2-pentanone (MIBK)	0.19	0.018
Propene	U	1.4
Styrene	0.029	0.018
1,1,2,2-Tetrachloroethane	U J	0.018
Tetrachloroethylene	0.024	0.018
Tetrahydrofuran	0.11	0.018
Toluene	0.35	0.018
1,1,1-Trichloroethane	U	0.018
1,1,2-Trichloroethane	U J	0.018
Trichloroethylene	U	0.018
Trichlorofluoromethane (Freon 11)	0.24	0.018
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.076	0.018
1,2,4-Trimethylbenzene	0.060	0.018
1,3,5-Trimethylbenzene	U	0.018
Vinyl Acetate	U J	0.70
Vinyl Chloride	U	0.018
m&p-Xylene	0.20	0.070
o-Xylene	0.067	0.018

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Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Laboratory Sample Number	B100143-BLK1	14F1292-13	14F1292-22	14F1292-23
Sample Number	7/1/2014	239-0614-0013	239-0614-0022	239-0614-0023
Sample Location	Method Blank	Unit 011	Unit 002	Unit 003
Sublocation		SS	Ambient	Ambient
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Acetone	U 1.0	58 J 1.5	18 J 2.6	20 J 2.5
Benzene	U 0.013	0.54 0.018	0.065 0.018	0.11 0.018
Bromoform	U 0.012	U 0.018	U 0.018	U 0.018
Bromomethane	U 0.025	U 0.035	U 0.035	U 0.035
1,3-Butadiene	U 0.013	U 0.018	U 0.018	U 0.018
2-Butanone (MEK)	U 1.0	8.0 1.4	2.7 1.4	1.5 1.4
Carbon Tetrachloride	U 0.012	0.026 0.018	0.071 0.018	0.069 0.018
Chlorobenzene	U 0.012	0.16 0.018	U 0.018	U 0.018
Chloroethane	U 0.012	U 0.018	U 0.018	U 0.018
Chloroform	U 0.012	1.4 0.018	0.027 0.018	0.029 0.018
Chloromethane	U 0.050	0.23 0.070	0.60 0.070	0.66 0.070
Cyclohexane	U 0.025	0.58 0.035	U 0.035	U 0.035
Dibromochloromethane	U 0.012	U 0.018	U 0.018	U 0.018
1,2-Dibromoethane (EDB)	U 0.012	U 0.018	U 0.018	U 0.018
1,2-Dichlorobenzene	U 0.012	U 0.018	U 0.018	U 0.018
1,3-Dichlorobenzene	U 0.012	U 0.018	U 0.018	U 0.018
1,4-Dichlorobenzene	U 0.012	0.12 0.018	0.034 0.018	U 0.018
Dichlorodifluoromethane (Freon 12)	U 0.012	0.21 0.018	0.41 0.018	0.42 0.018
1,1-Dichloroethane	U 0.012	U 0.018	U 0.018	U 0.018
1,2-Dichloroethane	U 0.012	0.17 0.018	0.030 0.018	U 0.018
1,1-Dichloroethylene	U 0.012	U 0.018	U 0.018	U 0.018
cis-1,2-Dichloroethylene	U 0.012	U 0.018	U 0.018	U 0.018
trans-1,2-Dichloroethylene	U 0.012	U 0.018	U 0.018	U 0.018
1,2-Dichloropropane	U 0.012	U 0.018	U 0.018	U 0.018
cis-1,3-Dichloropropene	U 0.012	U 0.018	U 0.018	U 0.018
trans-1,3-Dichloropropene	U 0.012	U 0.018	U 0.018	U 0.018
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U 0.012	0.025 0.018	U 0.018	U 0.018
1,4-Dioxane	U 0.25	U 0.35	U 0.35	U 0.35
Ethyl Acetate	U 0.025	0.39 0.035	U 0.035	U 0.035
Ethylbenzene	U 0.012	0.53 0.018	0.022 0.018	0.066 0.018
4-Ethyltoluene	U 0.012	0.081 0.018	U 0.018	0.020 0.018
Heptane	U 0.012	0.89 0.018	0.050 0.018	0.17 0.018
Hexane	U 1.0	U 1.4	U 2.4	U 1.5
2-Hexanone (MBK)	U 0.012	1.3 J 0.018	0.32 J 0.018	0.13 J 0.018
Isopropanol	U 1.0	4.0 1.4	7.3 1.4	15 1.4
Methyl tert-Butyl Ether (MTBE)	U 0.025	U 0.035	U 0.035	U 0.035
Methylene Chloride	U 0.25	U 0.35	U 0.35	U 0.35
4-Methyl-2-pentanone (MIBK)	U 0.012	0.76 0.018	0.22 0.018	0.13 0.018
Propene	U 1.0	5.3 1.4	U 1.4	U 1.4
Styrene	U 0.012	0.19 0.018	0.026 0.018	0.023 0.018
1,1,2-Tetrachloroethane	U 0.012	U 0.018	U 0.018	U 0.018
Tetrachloroethylene	U 0.012	0.73 0.018	0.025 0.018	0.027 0.018
Tetrahydrofuran	U 0.012	0.22 0.018	0.042 0.018	0.072 0.018
Toluene	U 0.012	2.2 0.018	0.19 0.018	0.84 0.018
1,1,1-Trichloroethane	U 0.012	0.36 0.018	U 0.018	U 0.018
1,1,2-Trichloroethane	U 0.012	U 0.018	U 0.018	U 0.018
Trichloroethylene	U 0.012	U 0.018	U 0.018	U 0.018
Trichlorofluoromethane (Freon 11)	U 0.012	0.35 0.018	0.25 0.018	0.26 0.018
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	U 0.012	0.084 0.018	0.072 0.018	0.074 0.018
1,2,4-Trimethylbenzene	U 0.012	0.39 0.018	0.024 0.018	0.060 0.018
1,3,5-Trimethylbenzene	U 0.012	0.14 0.018	U 0.018	U 0.018
Vinyl Acetate	U 0.50	U J 0.70	U J 0.70	U J 0.70
Vinyl Chloride	U 0.012	U 0.018	U 0.018	U 0.018
m&p-Xylene	U 0.050	1.0 0.070	U 0.070	0.24 0.070
o-Xylene	U 0.012	0.40 0.018	0.024 0.018	0.080 0.018

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Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Laboratory Sample Number	14F1292-24	14F1292-25	14F1292-26	14F1292-27
Sample Number	239-0614-0024	239-0614-0029	239-0614-0030	239-0614-0031
Sample Location	Unit 015	Unit 018	Unit 019	Unit 020
Sublocation	Crawl Space	CS-Co	Crawl Space	Crawl Space
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Acetone	33 J 1.9	12 J 2.5	16 J 1.4	19 J 2.4
Benzene	0.36 0.018	0.075 0.018	0.13 0.018	0.064 0.018
Bromoform	U 0.018	U 0.018	U 0.018	U 0.018
Bromomethane	U 0.035	U 0.035	U 0.035	U 0.035
1,3-Butadiene	0.63 0.018	U 0.018	U 0.018	U 0.018
2-Butanone (MEK)	2.5 1.4	U 1.4	2.5 1.4	3.5 1.4
Carbon Tetrachloride	0.073 0.018	0.069 0.018	0.073 0.018	0.069 0.018
Chlorobenzene	U 0.018	U 0.018	U 0.018	U 0.018
Chloroethane	0.041 0.018	U 0.018	U 0.018	0.020 0.018
Chloroform	0.17 0.018	0.14 0.018	0.085 0.018	0.051 0.018
Chloromethane	1.1 0.070	0.47 0.070	0.57 0.070	0.25 0.070
Cyclohexane	U 0.035	U 0.035	U 0.035	U 0.035
Dibromochloromethane	U 0.018	U 0.018	U 0.018	U 0.018
1,2-Dibromoethane (EDB)	U 0.018	U 0.018	U 0.018	U 0.018
1,2-Dichlorobenzene	U 0.018	U 0.018	U 0.018	U 0.018
1,3-Dichlorobenzene	U 0.018	U 0.018	U 0.018	0.024 0.018
1,4-Dichlorobenzene	U 0.018	U 0.018	U 0.018	0.16 0.018
Dichlorodifluoromethane (Freon 12)	0.45 0.018	0.41 0.018	0.43 0.018	0.43 0.018
1,1-Dichloroethane	U 0.018	U 0.018	U 0.018	U 0.018
1,2-Dichloroethane	0.11 0.018	0.034 0.018	0.16 0.018	U 0.018
1,1-Dichloroethylene	U 0.018	U 0.018	U 0.018	U 0.018
cis-1,2-Dichloroethylene	U 0.018	U 0.018	U 0.018	U 0.018
trans-1,2-Dichloroethylene	U 0.018	U 0.018	U 0.018	U 0.018
1,2-Dichloropropane	U 0.018	U 0.018	U 0.018	U 0.018
cis-1,3-Dichloropropene	U 0.018	U 0.018	U 0.018	U 0.018
trans-1,3-Dichloropropene	U 0.018	U 0.018	U 0.018	U 0.018
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U 0.018	U 0.018	U 0.018	U 0.018
1,4-Dioxane	U 0.35	U 0.35	U 0.35	U 0.35
Ethyl Acetate	0.13 0.035	0.54 0.035	0.086 0.035	0.20 0.035
Ethylbenzene	0.16 0.018	0.041 0.018	0.060 0.018	0.063 0.018
4-Ethyltoluene	0.033 0.018	U 0.018	U 0.018	U 0.018
Heptane	0.40 0.018	0.046 0.018	0.053 0.018	0.090 0.018
Hexane	U 4.2	U 4.9	U 1.4	U 4.7
2-Hexanone (MBK)	0.34 J 0.018	0.11 J 0.018	0.31 J 0.018	0.52 J 0.018
Isopropanol	37 1.4	2.0 1.4	1.9 1.4	2.5 1.4
Methyl tert-Butyl Ether (MTBE)	U 0.035	U 0.035	U 0.035	U 0.035
Methylene Chloride	U 0.35	U 0.35	U 0.35	U 0.35
4-Methyl-2-pentanone (MIBK)	0.20 0.018	0.16 0.018	0.24 0.018	0.22 0.018
Propene	3.9 1.4	U 1.4	U 1.4	U 1.4
Styrene	0.096 0.018	0.030 0.018	0.051 0.018	0.062 0.018
1,1,2,2-Tetrachloroethane	U 0.018	U 0.018	U 0.018	U 0.018
Tetrachloroethylene	0.027 0.018	0.025 0.018	0.024 0.018	0.13 0.018
Tetrahydrofuran	0.13 0.018	0.098 0.018	0.15 0.018	0.12 0.018
Toluene	1.2 0.018	0.34 0.018	0.28 0.018	0.71 0.018
1,1,1-Trichloroethane	U 0.018	U 0.018	U 0.018	U 0.018
1,1,2-Trichloroethane	U 0.018	U 0.018	U 0.018	U 0.018
Trichloroethylene	0.022 0.018	U 0.018	0.018 0.018	0.018 0.018
Trichlorofluoromethane (Freon 11)	0.50 0.018	0.30 0.018	0.25 0.018	0.27 0.018
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.076 J 0.028	0.071 0.018	0.074 0.018	0.076 J 0.025
1,2,4-Trimethylbenzene	0.14 0.018	0.053 0.018	0.053 0.018	0.039 0.018
1,3,5-Trimethylbenzene	0.046 0.018	U 0.018	0.052 0.018	U 0.018
Vinyl Acetate	U J 0.70	U J 0.70	U J 0.70	U J 0.70
Vinyl Chloride	U 0.018	U 0.018	U 0.018	U 0.018
m&p-Xylene	0.54 0.070	0.15 0.070	0.36 0.070	0.22 0.070
o-Xylene	0.17 0.018	0.062 0.018	0.060 0.018	0.053 0.018

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Table 1.1a (cont) Results of the Analysis for VOCs (ppbv) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Laboratory Sample Number	14F1292-28	14F1292-29	14F1292-30	14F1292-31
Sample Number	239-0614-0032	239-0614-0037	239-0614-0038	239-0614-0039
Sample Location	Unit 021	Unit 024	Unit 025	Unit 026
Sublocation	Crawl Space	Ambient	Crawl Space	Crawl Space
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Acetone	19 J 9.3		16 J 2.4	
Benzene	0.29 0.029		0.079 0.018	
Bromoform	U 0.018		U 0.018	
Bromomethane	U 0.035		U 0.035	
1,3-Butadiene	0.14 0.018		U 0.018	
2-Butanone (MEK)	U 1.4		2.7 1.4	
Carbon Tetrachloride	0.067 0.018		0.072 0.018	
Chlorobenzene	U 0.018		U 0.018	
Chloroethane	U 0.018		U 0.018	
Chloroform	0.34 0.018		0.025 0.018	
Chloromethane	0.53 0.070		0.61 0.070	
Cyclohexane	0.22 0.035		U 0.035	
Dibromochloromethane	U 0.018		U 0.018	
1,2-Dibromoethane (EDB)	U 0.018		U 0.018	
1,2-Dichlorobenzene	U 0.018		U 0.018	
1,3-Dichlorobenzene	U 0.018		U 0.018	
1,4-Dichlorobenzene	0.034 0.018		U 0.018	
Dichlorodifluoromethane (Freon 12)	0.43 0.018		0.43 0.018	
1,1-Dichloroethane	U 0.018		U 0.018	
1,2-Dichloroethane	U 0.018		U 0.018	
1,1-Dichloroethylene	U 0.018		U 0.018	
cis-1,2-Dichloroethylene	U 0.018		U 0.018	
trans-1,2-Dichloroethylene	U 0.018		U 0.018	
1,2-Dichloropropane	U 0.018		U 0.018	
cis-1,3-Dichloropropene	U 0.018		U 0.018	
trans-1,3-Dichloropropene	U 0.018		U 0.018	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U 0.018		U 0.018	
1,4-Dioxane	U 0.35		U 0.35	
Ethyl Acetate	14 0.035		0.093 0.035	
Ethylbenzene	0.17 0.018		0.051 0.018	
4-Ethyltoluene	0.044 0.018		U 0.018	
Heptane	0.20 0.018		0.075 0.018	
Hexane	U 4.8		U 2.4	
2-Hexanone (MBK)	U J 0.120		0.26 J 0.018	
Isopropanol	16 1.4		2.6 1.4	
Methyl tert-Butyl Ether (MTBE)	U 0.035		U 0.035	
Methylene Chloride	1.0 0.35		U 0.35	
4-Methyl-2-pentanone (MIBK)	0.18 J 0.110		0.22 0.018	
Propene	U 1.4		U 1.4	
Styrene	0.20 0.018		0.032 0.018	
1,1,2,2-Tetrachloroethane	U 0.018		U 0.018	
Tetrachloroethylene	0.041 0.018		0.046 0.018	
Tetrahydrofuran	0.54 0.018		0.11 0.018	
Toluene	2.2 0.022		0.28 0.018	
1,1,1-Trichloroethane	U 0.018		U 0.018	
1,1,2-Trichloroethane	U 0.018		U 0.018	
Trichloroethylene	0.056 0.018		0.019 0.018	
Trichlorofluoromethane (Freon 11)	0.28 0.018		0.26 0.018	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.076 0.018		0.076 0.018	
1,2,4-Trimethylbenzene	0.18 0.018		0.058 0.018	
1,3,5-Trimethylbenzene	0.054 0.018		U 0.018	
Vinyl Acetate	U J 0.70		U J 0.70	
Vinyl Chloride	U 0.018		U 0.018	
m&p-Xylene	0.52 0.070		0.19 0.070	
o-Xylene	0.22 0.018		0.074 0.018	

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Table 1.1a (cont) Results of the Analysis for VOCs (ppbv) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Laboratory Sample Number	14F1292-32		14F1292-33		14F1292-34		14F1292-35	
Sample Number	239-0614-0040		239-0614-0041		239-0614-0042		239-0614-0043	
Sample Location	Unit 027		Unit 028		Unit 029		Unit 030	
Sublocation	SS		Crawl Space		Crawl Space		Crawl Space	
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Acetone	45 J	3.4	27 J	3.4	16 J	2.7	16 J	1.4
Benzene	0.15	0.018	0.13	0.018	0.069	0.018	0.068	0.018
Bromoform	U	0.018	U	0.018	U	0.018	U	0.018
Bromomethane	U	0.035	U	0.035	U	0.035	U	0.035
1,3-Butadiene	U	0.018	0.12	0.018	U	0.018	U	0.018
2-Butanone (MEK)	6.3	1.4	2.5	1.4	2.3	1.4	2.3	1.4
Carbon Tetrachloride	0.053	0.018	0.073	0.018	0.068	0.018	0.067	0.018
Chlorobenzene	0.11	0.018	U	0.018	U	0.018	U	0.018
Chloroethane	U	0.018	U	0.018	U	0.018	U	0.018
Chloroform	0.053	0.018	0.083	0.018	0.11	0.018	0.065	0.018
Chloromethane	0.086	0.070	0.48	0.070	0.58	0.070	0.52	0.070
Cyclohexane	0.37	0.035	U	0.035	U	0.035	U	0.035
Dibromochloromethane	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dibromoethane (EDB)	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dichlorobenzene	U	0.018	U	0.018	U	0.018	U	0.018
1,3-Dichlorobenzene	U	0.018	U	0.018	U	0.018	U	0.018
1,4-Dichlorobenzene	0.030	0.018	0.018	0.018	U	0.018	1.3	0.018
Dichlorodifluoromethane (Freon 12)	0.50	0.018	0.44	0.018	0.42	0.018	0.44	0.018
1,1-Dichloroethane	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dichloroethane	U	0.018	0.087	0.018	0.069	0.018	0.10	0.018
1,1-Dichloroethylene	U	0.018	U	0.018	U	0.018	U	0.018
cis-1,2-Dichloroethylene	U	0.018	U	0.018	U	0.018	U	0.018
trans-1,2-Dichloroethylene	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dichloropropane	U	0.018	U	0.018	U	0.018	U	0.018
cis-1,3-Dichloropropene	U	0.018	U	0.018	U	0.018	U	0.018
trans-1,3-Dichloropropene	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.021	0.018	0.018	0.018	U	0.018	U	0.018
1,4-Dioxane	U	0.35	U	0.35	U	0.35	U	0.35
Ethyl Acetate	0.24	0.035	0.079	0.035	0.081	0.035	0.059	0.035
Ethylbenzene	0.28	0.018	0.15	0.018	0.15	0.018	0.032	0.018
4-Ethyltoluene	0.031	0.018	U	0.018	0.022	0.018	U	0.018
Heptane	0.29	0.018	0.18	0.018	0.063	0.018	0.048	0.018
Hexane	U	1.7	U	1.7	U	1.7	U	1.4
2-Hexanone (MBK)	0.88 J	0.069	0.33 J	0.090	0.32 J	0.055	0.25 J	0.018
Isopropanol	3.6	1.4	3.6	1.4	U	1.4	2.0	1.4
Methyl tert-Butyl Ether (MTBE)	U	0.035	U	0.035	U	0.035	U	0.035
Methylene Chloride	U	0.35	U	0.35	U	0.35	U	0.35
4-Methyl-2-pentanone (MIBK)	0.68	0.049	U	0.018	0.16	0.018	0.12	0.018
Propene	U	1.4	U	1.4	U	1.4	U	1.4
Styrene	0.16	0.018	0.065	0.018	0.053	0.018	0.033	0.018
1,1,2-Tetrachloroethane	U	0.018	U	0.018	U	0.018	U	0.018
Tetrachloroethylene	0.11	0.018	0.055	0.018	0.046	0.018	0.024	0.018
Tetrahydrofuran	0.11	0.018	0.25	0.018	0.069	0.018	0.050	0.018
Toluene	1.2	0.018	0.65	0.018	0.57	0.018	0.18	0.018
1,1,1-Trichloroethane	0.25	0.018	U	0.018	U	0.018	U	0.018
1,1,2-Trichloroethane	U	0.018	U	0.018	U	0.018	U	0.018
Trichloroethylene	U	0.018	0.025	0.018	0.022	0.018	0.020	0.018
Trichlorofluoromethane (Freon 11)	0.83	0.018	0.27	0.018	0.25	0.018	0.25	0.018
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.076	0.018	0.079	0.018	0.079	0.018	0.076	0.018
1,2,4-Trimethylbenzene	0.24	0.018	0.082 J	0.020	0.094	0.018	0.034	0.018
1,3,5-Trimethylbenzene	0.084	0.018	0.026	0.018	0.030	0.018	U	0.018
Vinyl Acetate	U J	0.70						
Vinyl Chloride	U	0.018	U	0.018	U	0.018	U	0.018
m&p-Xylene	1.3	0.070	0.77	0.070	0.78	0.070	0.097	0.070
o-Xylene	0.60	0.018	0.34	0.018	0.35	0.018	0.038	0.018

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Table 1.1a (cont) Results of the Analysis for VOCs (ppbv) in Air
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Laboratory Sample Number	14F1292-36		14F1292-37		14F1292-38		14F1292-39	
Sample Number	239-0614-0044		239-0614-0045		239-0614-0046		239-0614-0047	
Sample Location	Unit 031		Unit 031		Unit 032		Unit 032	
Sublocation	Crawl Space		Ambient		SS		Ambient	
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Acetone	10 J	1.8	17 J	1.8	56 J	1.4	19 J	2.0
Benzene	0.060	0.018	0.093	0.018	0.43	0.018	0.13	0.018
Bromoform	U	0.018	U	0.018	U	0.018	U	0.018
Bromomethane	U	0.035	U	0.035	U	0.035	U	0.035
1,3-Butadiene	U	0.018	U	0.018	U	0.018	0.23	0.018
2-Butanone (MEK)	1.8	1.4	2.0	1.4	5.7	1.4	2.2	1.4
Carbon Tetrachloride	0.070	0.018	0.069	0.018	0.031	0.018	0.074	0.018
Chlorobenzene	U	0.018	U	0.018	0.044	0.018	U	0.018
Chloroethane	U	0.018	U	0.018	U	0.018	U	0.018
Chloroform	0.034	0.018	0.029	0.018	1.3	0.018	0.039	0.018
Chloromethane	0.36	0.070	0.67	0.070	0.18	0.070	0.81	0.070
Cyclohexane	U	0.035	U	0.035	0.25	0.035	U	0.035
Dibromochloromethane	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dibromoethane (EDB)	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dichlorobenzene	U	0.018	U	0.018	U	0.018	U	0.018
1,3-Dichlorobenzene	U	0.018	U	0.018	U	0.018	U	0.018
1,4-Dichlorobenzene	U	0.018	U	0.018	2.3	0.018	2.1	0.018
Dichlorodifluoromethane (Freon 12)	0.41	0.018	0.45	0.018	0.31 J	0.018	0.46	0.018
1,1-Dichloroethane	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dichloroethane	U	0.018	U	0.018	U	0.018	U	0.018
1,1-Dichloroethylene	U	0.018	U	0.018	U	0.018	U	0.018
cis-1,2-Dichloroethylene	U	0.018	U	0.018	U	0.018	U	0.018
trans-1,2-Dichloroethylene	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dichloropropane	U	0.018	U	0.018	U	0.018	U	0.018
cis-1,3-Dichloropropene	U	0.018	U	0.018	U	0.018	U	0.018
trans-1,3-Dichloropropene	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U	0.018	U	0.018	0.020	0.018	0.018	0.018
1,4-Dioxane	U	0.35	U	0.35	U	0.35	U	0.35
Ethyl Acetate	0.065	0.035	0.095	0.035	0.20	0.035	0.15	0.035
Ethylbenzene	0.043	0.018	0.072	0.018	0.34	0.018	0.082	0.018
4-Ethyltoluene	U	0.018	0.020	0.018	0.088	0.018	0.023	0.018
Heptane	1.1	0.018	0.099	0.018	0.52	0.018	0.097	0.018
Hexane	U	4.6	U	4.6	U	1.4	U	3.5
2-Hexanone (MBK)	0.23 J	0.018	0.15 J	0.018	0.51 J	0.018	0.16 J	0.018
Isopropanol	1.6	1.4	5.7	1.4	2.7 J	1.4	4.0	1.4
Methyl tert-Butyl Ether (MTBE)	U	0.035	U	0.035	U	0.035	U	0.035
Methylene Chloride	U	0.35	U	0.35	U	0.35	0.40	0.35
4-Methyl-2-pentanone (MIBK)	0.14	0.018	0.13	0.018	0.51	0.018	0.14	0.018
Propene	U	1.4	U	1.4	2.0	1.4	U	1.4
Styrene	0.018	0.018	0.019	0.018	0.11	0.018	0.038	0.018
1,1,2-Tetrachloroethane	U	0.018	U	0.018	U	0.018	U	0.018
Tetrachloroethylene	0.025	0.018	U	0.018	0.43	0.018	U	0.018
Tetrahydrofuran	0.039	0.018	0.048	0.018	0.14	0.018	0.055	0.018
Toluene	3.0	0.018	0.36	0.018	1.3	0.018	0.72	0.018
1,1,1-Trichloroethane	U	0.018	U	0.018	0.050	0.018	U	0.018
1,1,2-Trichloroethane	U	0.018	U	0.018	U	0.018	U	0.018
Trichloroethylene	0.084	0.018	0.12	0.018	U	0.018	0.12	0.018
Trichlorofluoromethane (Freon 11)	0.26	0.018	0.27	0.018	0.33	0.018	0.28	0.018
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.072 J	0.041	0.084	0.018	0.091	0.018	0.086	0.018
1,2,4-Trimethylbenzene	0.055	0.018	0.065	0.018	0.60	0.018	0.079	0.018
1,3,5-Trimethylbenzene	U	0.018	0.020	0.018	0.15	0.018	0.020	0.018
Vinyl Acetate	U J	0.70						
Vinyl Chloride	U	0.018	U	0.018	U	0.018	U	0.018
m&p-Xylene	0.14	0.070	0.27	0.070	0.79	0.070	0.30	0.070
o-Xylene	0.057	0.018	0.098	0.018	0.43	0.018	0.097	0.018

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Table 1.1a (cont) Results of the Analysis for VOCs (ppbv) in Air
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Laboratory Sample Number	B100144-BLK1	14F1292-40	14F1292-41	14F1292-42
Sample Number	7/2/2014	239-0614-0048	239-0614-0025	239-0614-0026
Sample Location	Method Blank	Trip	Unit 015	Unit 016
Sublocation			Ambient	Crawl Space
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Acetone	U 1.0	U 1.4	17 2.7	33 1.4
Benzene	U 0.013	U 0.018	0.12 0.018	0.081 0.018
Bromoform	U 0.012	U 0.018	U 0.018	U 0.018
Bromomethane	U 0.025	U 0.035	U 0.035	U 0.035
1,3-Butadiene	U 0.013	U 0.018	U 0.018	U 0.018
2-Butanone (MEK)	U 1.0	U 1.4	2.0 1.4	3.4 1.4
Carbon Tetrachloride	U 0.012	U 0.018	0.073 0.018	0.081 0.018
Chlorobenzene	U 0.012	U 0.018	U 0.018	U 0.018
Chloroethane	U 0.012	U 0.018	U 0.018	U 0.018
Chloroform	U 0.012	U 0.018	0.025 0.018	0.23 0.018
Chloromethane	U 0.050	U 0.070	0.65 0.070	0.65 0.070
Cyclohexane	U 0.025	U 0.035	0.060 0.035	U 0.035
Dibromochloromethane	U 0.012	U 0.018	U 0.018	U 0.018
1,2-Dibromoethane (EDB)	U 0.012	U 0.018	U 0.018	U 0.018
1,2-Dichlorobenzene	U 0.012	U 0.018	U 0.018	U 0.018
1,3-Dichlorobenzene	U 0.012	U 0.018	U 0.018	U 0.018
1,4-Dichlorobenzene	U 0.012	U 0.018	U 0.018	U 0.018
Dichlorodifluoromethane (Freon 12)	U 0.012	U 0.018	0.47 0.018	0.58 0.018
1,1-Dichloroethane	U 0.012	U 0.018	U 0.018	U 0.018
1,2-Dichloroethane	U 0.012	U 0.018	U 0.018	0.081 0.018
1,1-Dichloroethylene	U 0.012	U 0.018	U 0.018	U 0.018
cis-1,2-Dichloroethylene	U 0.012	U 0.018	U 0.018	U 0.018
trans-1,2-Dichloroethylene	U 0.012	U 0.018	U 0.018	U 0.018
1,2-Dichloropropane	U 0.012	U 0.018	U 0.018	U 0.018
cis-1,3-Dichloropropene	U 0.012	U 0.018	U 0.018	U 0.018
trans-1,3-Dichloropropene	U 0.012	U 0.018	U 0.018	U 0.018
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U 0.012	U 0.018	U 0.018	0.018 0.018
1,4-Dioxane	U 0.25	U 0.35	U 0.35	U 0.35
Ethyl Acetate	U 0.025	U 0.035	0.054 0.035	0.15 0.035
Ethylbenzene	U 0.012	U 0.018	0.11 0.018	0.032 0.018
4-Ethyltoluene	U 0.012	U 0.018	0.034 0.018	U 0.018
Heptane	U 0.012	U 0.018	0.16 0.018	0.065 0.018
Hexane	U 1.0	U 1.4	U 4.9	U 1.4
2-Hexanone (MBK)	U 0.012	U J 0.018	0.17 J 0.018	0.35 J 0.018
Isopropanol	U 1.0	U 1.4	1.9 1.4	12 1.4
Methyl tert-Butyl Ether (MTBE)	U 0.025	U 0.035	U 0.035	U 0.035
Methylene Chloride	U 0.25	U 0.35	U 0.35	U 0.35
4-Methyl-2-pentanone (MIBK)	U 0.012	U 0.018	0.19 0.018	0.31 0.018
Propene	U 1.0	U 1.4	U 1.4	U 1.4
Styrene	U 0.012	U 0.018	0.021 0.018	0.041 0.018
1,1,2-Tetrachloroethane	U 0.012	U J 0.018	U J 0.018	U J 0.018
Tetrachloroethylene	U 0.012	U 0.018	U 0.018	U 0.018
Tetrahydrofuran	U 0.012	U 0.018	0.098 0.018	0.12 0.018
Toluene	U 0.012	U 0.018	0.66 0.018	0.23 0.018
1,1,1-Trichloroethane	U 0.012	U 0.018	U 0.018	U 0.018
1,1,2-Trichloroethane	U 0.012	U 0.018	U 0.018	U 0.018
Trichloroethylene	U 0.012	U 0.018	0.022 0.018	0.018 0.018
Trichlorofluoromethane (Freon 11)	U 0.012	U 0.018	0.28 0.018	0.29 0.018
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	U 0.012	U 0.018	0.080 0.018	0.084 0.018
1,2,4-Trimethylbenzene	U 0.012	U 0.018	0.11 0.018	0.036 0.018
1,3,5-Trimethylbenzene	U 0.012	U 0.018	0.030 0.018	U 0.018
Vinyl Acetate	U 0.50	U J 0.70	U J 0.70	U J 0.70
Vinyl Chloride	U 0.012	U 0.018	U 0.018	U 0.018
m&p-Xylene	U 0.050	U 0.070	0.37 0.070	0.094 0.070
o-Xylene	U 0.012	U 0.018	0.13 0.018	0.036 0.018

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Table 1.1a (cont) Results of the Analysis for VOCs (ppbv) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method : EPA TO-15

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Laboratory Sample Number	14F1292-43		14F1292-44		14F1292-45		14F1292-46	
Sample Number	239-0614-0027		239-0614-0028		239-0614-0033		239-0614-0034	
Sample Location	Unit 017		Unit 018		Unit 021		Unit 022	
Sublocation	Crawl Space		Crawl Space		Ambient		Crawl Space	
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Acetone	230	20	15	1.4	13	1.6	24	2.9
Benzene	0.066	0.018	0.093	0.018	0.080 J	0.029	0.12	0.018
Bromoform	U	0.018	U	0.018	U	0.018	U	0.018
Bromomethane	U	0.035	U	0.035	U	0.035	U	0.035
1,3-Butadiene	U	0.018	U	0.018	U	0.018	U	0.018
2-Butanone (MEK)	2.1	1.4	2.2	1.4	1.8	1.4	2.6	1.4
Carbon Tetrachloride	0.093	0.018	0.076	0.018	0.076	0.018	0.076	0.018
Chlorobenzene	U	0.018	U	0.018	U	0.018	U	0.018
Chloroethane	0.034	0.018	0.057	0.018	U	0.018	U	0.018
Chloroform	0.14	0.018	0.15	0.018	0.024	0.018	0.22	0.018
Chloromethane	0.64	0.070	0.55	0.070	0.70	0.070	0.47	0.070
Cyclohexane	U	0.035	U	0.035	U	0.035	U	0.035
Dibromochloromethane	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dibromoethane (EDB)	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dichlorobenzene	U	0.018	U	0.018	U	0.018	U	0.018
1,3-Dichlorobenzene	U	0.018	U	0.018	U	0.018	U	0.018
1,4-Dichlorobenzene	U	0.018	U	0.018	U	0.018	U	0.018
Dichlorodifluoromethane (Freon 12)	0.45	0.018	0.47	0.018	0.47	0.018	0.47	0.018
1,1-Dichloroethane	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dichloroethane	U	0.018	0.040	0.018	U	0.018	0.081	0.018
1,1-Dichloroethylene	U	0.018	U	0.018	U	0.018	U	0.018
cis-1,2-Dichloroethylene	U	0.018	U	0.018	U	0.018	U	0.018
trans-1,2-Dichloroethylene	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dichloropropane	U	0.018	U	0.018	U	0.018	U	0.018
cis-1,3-Dichloropropene	U	0.018	U	0.018	U	0.018	U	0.018
trans-1,3-Dichloropropene	U	0.018	U	0.018	U	0.018	U	0.018
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U	0.018	U	0.018	0.018	0.018	0.018	0.018
1,4-Dioxane	U	0.35	U	0.35	U	0.35	U	0.35
Ethyl Acetate	0.12	0.035	0.59	0.035	0.054	0.035	2.5	0.035
Ethylbenzene	0.038	0.018	0.053	0.018	0.039	0.018	0.23	0.018
4-Ethyltoluene	U	0.018	U	0.018	U	0.018	0.031	0.018
Heptane	0.044	0.018	0.058	0.018	0.057	0.018	0.10	0.018
Hexane	U	4.4	U	1.4	U	4.4	U	1.7
2-Hexanone (MBK)	0.18 J	0.018	0.30 J	0.018	0.17 J	0.018	0.31 J	0.056
Isopropanol	370	20	1.9	1.4	2.0	1.4	2.1	1.4
Methyl tert-Butyl Ether (MTBE)	U	0.035	U	0.035	U	0.035	U	0.035
Methylene Chloride	U	0.35	U	0.35	U	0.35	U	0.35
4-Methyl-2-pentanone (MIBK)	0.17	0.018	0.13	0.018	0.079	0.018	0.24	0.040
Propene	U	1.4	U	1.4	U	1.4	U	1.4
Styrene	0.064	0.018	0.038	0.018	U	0.018	0.10	0.018
1,1,2-Tetrachloroethane	U J	0.018						
Tetrachloroethylene	U	0.018	U	0.018	U	0.018	0.050	0.018
Tetrahydrofuran	0.15	0.018	0.11	0.018	0.062	0.018	0.12	0.018
Toluene	0.28	0.018	0.39	0.018	0.23	0.018	1.4	0.018
1,1,1-Trichloroethane	U	0.018	U	0.018	U	0.018	U	0.018
1,1,2-Trichloroethane	U	0.018	U	0.018	U	0.018	U	0.018
Trichloroethylene	U	0.018	U	0.018	0.018	0.018	0.022	0.018
Trichlorofluoromethane (Freon 11)	0.31	0.018	0.33	0.018	0.28	0.018	0.28	0.018
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.083	0.018	0.079	0.018	0.091	0.018	0.084	0.018
1,2,4-Trimethylbenzene	0.036	0.018	0.060	0.018	0.050	0.018	0.14	0.018
1,3,5-Trimethylbenzene	U	0.018	U	0.018	U	0.018	0.036	0.018
Vinyl Acetate	U J	0.70						
Vinyl Chloride	U	0.018	U	0.018	U	0.018	U	0.018
m&p-Xylene	0.14	0.070	0.17	0.070	0.13	0.070	1.0	0.070
o-Xylene	0.054	0.018	0.073	0.018	0.049	0.018	0.43	0.018

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Table 1.1a (cont) Results of the Analysis for VOCs (ppbv) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method : EPA TO-15

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Laboratory Sample Number	14F1292-47	14F1292-48		
Sample Number	239-0614-0035	239-0614-0036		
Sample Location	Unit 023	Unit 024		
Sublocation	Crawl Space			
Analyte	Result ppbv	RL ppbv	Result ppbv	
			RL ppbv	
Acetone	24	2.3	18	2.4
Benzene	0.083	0.018	0.16	0.018
Bromoform	U	0.018	U	0.018
Bromomethane	U	0.035	U	0.035
1,3-Butadiene	U	0.018	U	0.018
2-Butanone (MEK)	3.8	1.4	2.6	1.4
Carbon Tetrachloride	0.075	0.018	0.098	0.018
Chlorobenzene	U	0.018	U	0.018
Chloroethane	0.032	0.018	0.032	0.018
Chloroform	0.20	0.018	0.26	0.018
Chloromethane	0.32	0.070	0.65	0.070
Cyclohexane	U	0.035	0.64	0.035
Dibromochloromethane	U	0.018	U	0.018
1,2-Dibromoethane (EDB)	U	0.018	U	0.018
1,2-Dichlorobenzene	U	0.018	U	0.018
1,3-Dichlorobenzene	0.027	0.018	U	0.018
1,4-Dichlorobenzene	0.82	0.018	U	0.018
Dichlorodifluoromethane (Freon 12)	0.47	0.018	0.47	0.018
1,1-Dichloroethane	U	0.018	U	0.018
1,2-Dichloroethane	0.081	0.018	0.17	0.018
1,1-Dichloroethylene	U	0.018	U	0.018
cis-1,2-Dichloroethylene	U	0.018	U	0.018
trans-1,2-Dichloroethylene	U	0.018	U	0.018
1,2-Dichloropropane	U	0.018	U	0.018
cis-1,3-Dichloropropene	U	0.018	U	0.018
trans-1,3-Dichloropropene	U	0.018	U	0.018
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.018	0.018	0.018	0.018
1,4-Dioxane	U	0.35	U	0.35
Ethyl Acetate	0.23	0.035	0.73	0.035
Ethylbenzene	0.086	0.018	0.18	0.018
4-Ethyltoluene	0.021	0.018	0.021	0.018
Heptane	0.16	0.018	0.23	0.018
Hexane	U	4.7	3.4 J	2.4
2-Hexanone (MBK)	0.60 J	0.018	0.15 J	0.018
Isopropanol	11	1.4	5.0	1.4
Methyl tert-Butyl Ether (MTBE)	U	0.035	U	0.035
Methylene Chloride	0.49	0.35	U	0.35
4-Methyl-2-pentanone (MIBK)	0.31	0.018	0.19	0.018
Propene	U	1.4	U	1.4
Styrene	0.088	0.018	0.17	0.018
1,1,2,2-Tetrachloroethane	U J	0.018	U J	0.018
Tetrachloroethylene	0.11	0.018	0.095	0.018
Tetrahydrofuran	0.12	0.018	0.16	0.018
Toluene	0.94	0.018	1.4	0.018
1,1,1-Trichloroethane	U	0.018	0.77	0.018
1,1,2-Trichloroethane	U	0.018	U	0.018
Trichloroethylene	0.025	0.018	U	0.018
Trichlorofluoromethane (Freon 11)	0.28	0.018	0.31	0.018
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.087 J	0.018	0.086	0.018
1,2,4-Trimethylbenzene	0.065	0.018	0.086	0.018
1,3,5-Trimethylbenzene	0.020	0.018	0.026	0.018
Vinyl Acetate	U J	0.70	U J	0.70
Vinyl Chloride	U	0.018	U	0.018
m&p-Xylene	0.28	0.070	0.59	0.070
o-Xylene	0.082	0.018	0.18	0.018

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Table 1.1b Results of the Analysis for VOC ($\mu\text{g}/\text{m}^3$) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA TO-15	Page 1 of 14								
Laboratory Sample Number	B100142-BLK1	14F1292-01		14F1292-02		14F1292-03				
Sample Number	6/29/2014	239-0614-0001		239-0614-0002		239-0614-0003				
Sample Location	Method Blank		Unit 001		Unit 002		Unit 003			
Sublocation	Crawl Space		Crawl Space		Crawl Space		Crawl Space			
Analyte	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$		
Acetone	U	2.4	33 J	5.7	53 J	6.9	51 J	3.3		
Benzene	U	0.041	0.22	0.058	0.20	0.058	0.21	0.058		
Bromoform	U	0.14	U	0.19	U	0.19	U	0.19		
Bromomethane	U	0.10	U	0.14	U	0.14	U	0.14		
1,3-Butadiene	U	0.029	U	0.040	U	0.040	U	0.040		
2-Butanone (MEK)	U	2.9	U	4.1	7.3	4.1	5.0	4.1		
Carbon Tetrachloride	U	0.079	0.41	0.11	0.44	0.11	0.46	0.11		
Chlorobenzene	U	0.059	U	0.083	U	0.083	U	0.083		
Chloroethane	U	0.034	0.046	0.047	0.048	0.047	0.085	0.047		
Chloroform	U	0.063	0.15	0.088	8.5	0.088	0.53	0.088		
Chloromethane	U	0.10	0.86	0.14	0.63	0.14	0.81	0.14		
Cyclohexane	U	0.086	U	0.12	U	0.12	U	0.12		
Dibromochloromethane	U	0.11	U	0.15	U	0.15	U	0.15		
1,2-Dibromoethane (EDB)	U	0.10	U	0.14	U	0.14	U	0.14		
1,2-Dichlorobenzene	U	0.079	U	0.11	U	0.11	U	0.11		
1,3-Dichlorobenzene	U	0.079	U	0.11	U	0.11	U	0.11		
1,4-Dichlorobenzene	U	0.079	0.20	0.11	0.66	0.11	0.17	0.11		
Dichlorodifluoromethane (Freon 12)	U	0.064	2.1	0.089	2.1	0.089	2.1	0.089		
1,1-Dichloroethane	U	0.052	U	0.073	U	0.073	U	0.073		
1,2-Dichloroethane	U	0.052	U	0.073	0.46	0.073	1.5	0.073		
1,1-Dichloroethylene	U	0.051	U	0.071	U	0.071	U	0.071		
cis-1,2-Dichloroethylene	U	0.051	U	0.071	U	0.071	U	0.071		
trans-1,2-Dichloroethylene	U	0.051	U	0.071	U	0.071	U	0.071		
1,2-Dichloropropane	U	0.059	U J	0.083	U J	0.083	U J	0.083		
cis-1,3-Dichloropropene	U	0.059	U	0.082	U	0.082	U	0.082		
trans-1,3-Dichloropropene	U	0.059	U	0.082	U	0.082	U	0.082		
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U	0.093	U	0.13	U	0.13	U	0.13		
1,4-Dioxane	U	0.93	U	1.3	U	1.3	U	1.3		
Ethyl Acetate	U	0.093	U	0.13	2.7	0.13	0.32	0.13		
Ethylbenzene	U	0.056	0.17	0.078	0.31	0.078	0.10	0.078		
4-Ethyltoluene	U	0.063	U	0.088	0.093	0.088	U	0.088		
Heptane	U	0.053	0.24	0.074	0.34	0.074	0.26	0.074		
Hexane	U	3.5	U	15	U	4.9	U	4.9		
2-Hexanone (MBK)	U	0.053	0.39 J	0.074	0.86 J	0.074	0.73 J	0.074		
Isopropanol	U	2.4	24	3.4	38	3.4	34	3.4		
Methyl tert-Butyl Ether (MTBE)	U	0.093	U	0.065	U	0.065	U	0.065		
Methylene Chloride	U	0.86	U	1.2	U	1.2	U	1.2		
4-Methyl-2-pentanone (MIBK)	U	0.053	0.51	0.074	0.98	0.074	0.49	0.074		
Propene	U	1.7	U	2.4	U	2.4	U	2.4		
Styrene	U	0.055	0.096	0.077	0.56	0.077	0.15	0.077		
1,1,2,2-Tetrachloroethane	U	0.086	U J	0.12	U J	0.12	U J	0.12		
Tetrachloroethylene	U	0.086	0.23	0.12	0.61	0.12	0.28	0.12		
Tetrahydrofuran	U	0.038	0.32	0.053	0.52	0.053	0.45	0.053		
Toluene	U	0.049	1.6	0.068	3.5	0.068	1.7	0.068		
1,1,1-Trichloroethane	U	0.070	U	0.098	U	0.098	U	0.098		
1,1,2-Trichloroethane	U	0.070	U J	0.098	U J	0.098	U J	0.098		
Trichloroethylene	U	0.069	0.11	0.097	U	0.097	U	0.097		
Trichlorofluoromethane (Freon 11)	U	0.071	1.4	0.10	1.6	0.10	1.6	0.10		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	U	0.10	0.55	0.14	0.58	0.14	0.60	0.14		
1,2,4-Trimethylbenzene	U	0.063	0.19	0.088	0.31	0.088	0.19	0.088		
1,3,5-Trimethylbenzene	U	0.063	U	0.088	U	0.088	U	0.088		
Vinyl Acetate	U	1.8	U J	2.5	U J	2.5	U J	2.5		
Vinyl Chloride	U	0.033	U	0.046	U	0.046	U	0.046		
m&p-Xylene	U	0.21	0.61	0.30	0.93	0.30	U	0.30		
o-Xylene	U	0.056	0.21	0.078	0.27	0.078	0.11	0.078		

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Table 1.1b Results of the Analysis for VOC ($\mu\text{g}/\text{m}^3$) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA TO-15								Page 2 of 14	
Laboratory Sample Number	14F1292-04		14F1292-05		14F1292-06		14F1292-07			
Sample Number	239-0614-0004		239-0614-0005		239-0614-0006		239-0614-0007			
Sample Location	Unit 004		Unit 005		Unit 005		Unit 006			
Sublocation	Crawl Space		Crawl Space		Ambient		Crawl Space			
Analyte	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$		
Acetone	1700	J 95	39	J 6.9	46	J 9.0	41	J 8.1		
Benzene	1.8	0.058	0.43	0.058	0.24	0.058	0.46	0.058		
Bromoform	U	0.19	U	0.19	U	0.19	U	0.19		
Bromomethane	U	0.14	U	0.14	U	0.14	U	0.14		
1,3-Butadiene	U	0.040	0.41	0.040	U	0.040	0.58	0.040		
2-Butanone (MEK)	11	4.1	8.3	4.1	7.1	4.1	5.9	4.1		
Carbon Tetrachloride	0.40	0.11	0.42	0.11	0.42	0.11	0.41	0.11		
Chlorobenzene	U	0.083	U	0.083	U	0.083	U	0.083		
Chloroethane	0.13	0.047	U	0.047	U	0.047	U	0.047		
Chloroform	0.63	0.088	1.8	0.088	0.15	0.088	0.44	0.088		
Chloromethane	0.98	0.14	0.83	0.14	1.3	0.14	1.1	0.14		
Cyclohexane	2.5	0.12	U	0.12	U	0.12	U	0.12		
Dibromochloromethane	U	0.15	U	0.15	U	0.15	U	0.15		
1,2-Dibromoethane (EDB)	U	0.14	U	0.14	U	0.14	U	0.14		
1,2-Dichlorobenzene	U	0.11	U	0.11	U	0.11	U	0.11		
1,3-Dichlorobenzene	0.14	0.11	U	0.11	U	0.11	U	0.11		
1,4-Dichlorobenzene	2.3	0.11	0.12	0.11	U	0.11	U	0.11		
Dichlorodifluoromethane (Freon 12)	2.1	0.089	2.0	0.089	2.1	0.089	2.1	0.089		
1,1-Dichloroethane	U	0.073	U	0.073	U	0.073	U	0.073		
1,2-Dichloroethane	0.15	0.073	0.51	0.073	U	0.073	U	0.073		
1,1-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071		
cis-1,2-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071		
trans-1,2-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071		
1,2-Dichloropropane	U J	0.083								
cis-1,3-Dichloropropene	U	0.082	U	0.082	U	0.082	U	0.082		
trans-1,3-Dichloropropene	U	0.082	U	0.082	U	0.082	U	0.082		
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U	0.13	U	0.13	U	0.13	U	0.13		
1,4-Dioxane	U	1.3	U	1.3	U	1.3	U	1.3		
Ethyl Acetate	2.5	0.13	0.39	0.13	0.25	0.13	0.35	0.13		
Ethylbenzene	10	0.078	0.36	0.078	0.16	0.078	0.18	0.078		
4-Ethyltoluene	15	0.088	0.090	0.088	U	0.088	U	0.088		
Heptane	35	0.074	0.33	0.074	0.32	0.074	0.19	0.074		
Hexane	0.88	J 5.3	U	5.3	U	4.9	U	5.3		
2-Hexanone (MBK)	1.3	J 0.33	1.5	J 0.26	0.91	J 0.074	0.57	J 0.074		
Isopropanol	21	3.4	18	3.4	33	3.4	18	3.4		
Methyl tert-Butyl Ether (MTBE)	U	0.065	U	0.065	U	0.065	U	0.065		
Methylene Chloride	2.1	1.2	U	1.2	U	1.2	4.2	1.2		
4-Methyl-2-pentanone (MIBK)	U	0.29	1.1	0.18	0.62	0.074	1.1	0.074		
Propene	U	2.4	2.6	2.4	U	2.4	U	2.4		
Styrene	0.75	0.077	0.34	0.077	0.11	0.077	0.24	0.077		
1,1,2,2-Tetrachloroethane	U J	0.12								
Tetrachloroethylene	1.3	0.12	0.23	0.12	0.19	0.12	0.20	0.12		
Tetrahydrofuran	0.47	0.053	0.27	0.053	0.39	0.053	2.0	0.053		
Toluene	2900	1.9	2.3	0.068	1.0	0.068	1.2	0.068		
1,1,1-Trichloroethane	U	0.098	U	0.098	U	0.098	U	0.098		
1,1,2-Trichloroethane	U J	0.098								
Trichloroethylene	0.18	0.097	U	0.097	0.11	0.097	U	0.097		
Trichlorofluoromethane (Freon 11)	1.9	0.10	5.4	0.10	1.5	0.10	1.7	0.10		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.62	0.14	0.60	0.14	0.59	0.14	0.60	0.14		
1,2,4-Trimethylbenzene	21	0.088	0.42	0.088	0.22	0.088	0.25	0.088		
1,3,5-Trimethylbenzene	12	0.088	0.13	0.088	U	0.088	U	0.088		
Vinyl Acetate	U J	2.5								
Vinyl Chloride	U	0.046	U	0.046	U	0.046	U	0.046		
m&p-Xylene	37	0.30	1.1	0.30	0.55	0.30	0.55	0.30		
o-Xylene	12	0.078	0.39	0.078	0.22	0.078	0.19	0.078		

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Table 1.1b (cont) Results of the Analysis for VOC ($\mu\text{g}/\text{m}^3$) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA TO-15	Page 3 of 14							
Laboratory Sample Number	14F1292-08	14F1292-09		14F1292-10		14F1292-11			
Sample Number	239-0614-0008	239-0614-0009	239-0614-0010	239-0614-0011					
Sample Location	Unit 007		Unit 008		Unit 007		Unit 009		
Sublocation	Crawl Space		Crawl Space		Ambient		Ambient		
Analyte	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	
Acetone	260 J	3.3	180 J	4.3	38 J	7.1	36 J	8.1	
Benzene	4.2	0.058	0.45	0.058	0.22	0.058	0.18	0.058	
Bromoform	U	0.19	U	0.19	U	0.19	U	0.19	
Bromomethane	U	0.14	U	0.14	U	0.14	U	0.14	
1,3-Butadiene	6.9	0.040	0.41	0.040	U	0.040	U	0.040	
2-Butanone (MEK)	8.8	4.1	28	4.1	5.8	4.1	6.9	4.1	
Carbon Tetrachloride	0.41	0.11	0.41	0.11	0.39	0.11	0.40	0.11	
Chlorobenzene	U	0.083	U	0.083	U	0.083	U	0.083	
Chloroethane	0.15	0.047	0.059	0.047	U	0.047	U	0.047	
Chloroform	1.7	0.088	0.37	0.088	0.15	0.088	0.15	0.088	
Chloromethane	4.8	0.14	1.4	0.14	1.1	0.14	1.3	0.14	
Cyclohexane	U	0.12	U	0.12	U	0.12	U	0.12	
Dibromochloromethane	U	0.15	U	0.15	U	0.15	U	0.15	
1,2-Dibromoethane (EDB)	U	0.14	U	0.14	U	0.14	U	0.14	
1,2-Dichlorobenzene	U	0.11	U	0.11	U	0.11	U	0.11	
1,3-Dichlorobenzene	0.14	0.11	U	0.11	U	0.11	U	0.11	
1,4-Dichlorobenzene	0.89	0.11	U	0.11	U	0.11	U	0.11	
Dichlorodifluoromethane (Freon 12)	2.1	0.089	2.1	0.089	1.9	0.089	2.1	0.089	
1,1-Dichloroethane	U	0.073	U	0.073	U	0.073	U	0.073	
1,2-Dichloroethane	0.68	0.073	0.32	0.073	U	0.073	U	0.073	
1,1-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071	
cis-1,2-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071	
trans-1,2-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071	
1,2-Dichloropropane	U J	0.083							
cis-1,3-Dichloropropene	U	0.082	U	0.082	U	0.082	U	0.082	
trans-1,3-Dichloropropene	U	0.082	U	0.082	U	0.082	U	0.082	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U	0.13	U	0.13	U	0.13	U	0.13	
1,4-Dioxane	U	1.3	U	1.3	U	1.3	U	1.3	
Ethyl Acetate	3.4	0.13	1.4	0.13	0.34	0.13	0.25	0.13	
Ethylbenzene	1.7	0.078	1.8	0.078	0.15	0.078	0.12	0.078	
4-Ethyltoluene	0.20	0.088	0.23	0.088	U	0.088	U	0.088	
Heptane	0.91	0.074	0.59	0.074	0.27	0.074	0.21	0.072	
Hexane	U	4.9	U	4.9	U	6.0	U	4.9	
2-Hexanone (MBK)	1.1 J	0.074	1.1 J	0.074	0.68 J	0.16	1.0 J	0.30	
Isopropanol	23	3.4	80	3.4	6.1	3.4	12	3.4	
Methyl tert-Butyl Ether (MTBE)	U	0.065	0.096	0.065	U	0.065	U	0.065	
Methylene Chloride	U	1.2	U	1.2	U	1.2	1.5	1.2	
4-Methyl-2-pentanone (MIBK)	1.5	0.074	1.1	0.074	0.71	0.074	0.66	0.074	
Propene	22	2.4	3.4	2.4	U	2.4	U	2.4	
Styrene	1.2	0.077	5.5	0.077	0.16	0.077	0.15	0.077	
1,1,2,2-Tetrachloroethane	U J	0.12							
Tetrachloroethylene	0.79	0.12	0.18	0.12	0.22	0.12	0.30	0.12	
Tetrahydrofuran	0.67	0.053	81	0.053	0.37	0.053	0.24	0.053	
Toluene	11	0.068	2.0	0.068	0.94	0.068	0.71	0.068	
1,1,1-Trichloroethane	U	0.098	U	0.098	U	0.098	U	0.098	
1,1,2-Trichloroethane	U J	0.098							
Trichloroethylene	U	0.097	U	0.097	U	0.097	U	0.097	
Trichlorofluoromethane (Freon 11)	12	0.10	1.5	0.10	1.3	0.10	1.4	0.10	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.62	0.14	0.58	0.14	0.54	0.14	0.58	0.14	
1,2,4-Trimethylbenzene	0.52	0.088	0.85	0.088	0.17	0.088	0.10	0.088	
1,3,5-Trimethylbenzene	0.14	0.088	0.26	0.088	U	0.088	U	0.088	
Vinyl Acetate	U J	2.5							
Vinyl Chloride	U	0.046	U	0.046	U	0.046	U	0.046	
m&p-Xylene	4.4	0.30	7.0	0.30	0.52	0.30	0.41	0.30	
o-Xylene	1.0	0.078	2.7	0.078	0.19	0.078	0.14	0.078	

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Table 1.1b (cont) Results of the Analysis for VOC ($\mu\text{g}/\text{m}^3$) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA TO-15	Page 4 of 14							
Laboratory Sample Number	14F1292-12	14F1292-14		14F1292-15		14F1292-16			
Sample Number	239-0614-0012	239-0614-0014		239-0614-0015		239-0614-0016			
Sample Location	Unit 010		Unit 011		Unit 012		Unit 012		
Sublocation	Crawl Space		Ambient		Crawl Space		CS-Co		
Analyte	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	
Acetone	45 J	4.0	46 J	6.4	41 J	5.2	32 J	4.8	
Benzene	0.17	0.058	0.20	0.058	0.28	0.058	0.23	0.058	
Bromoform	U	0.19	U	0.19	U	0.19	U	0.19	
Bromomethane	U	0.14	U	0.14	U	0.14	U	0.14	
1,3-Butadiene	U	0.040	U	0.040	U	0.040	U	0.040	
2-Butanone (MEK)	7.3	4.1	5.4	4.1	6.8	4.1	7.5	4.1	
Carbon Tetrachloride	0.42	0.11	0.41	0.11	0.42	0.11	0.44	0.11	
Chlorobenzene	U	0.083	U	0.083	U	0.083	U	0.083	
Chloroethane	U	0.047	U	0.047	U	0.047	U	0.047	
Chloroform	0.23	0.088	0.17	0.088	0.35	0.088	0.34	0.088	
Chloromethane	1.0	0.14	1.3	0.14	0.79	0.14	0.82	0.14	
Cyclohexane	U	0.12	U	0.12	0.36	0.12	U	0.12	
Dibromochloromethane	U	0.15	U	0.15	U	0.15	U	0.15	
1,2-Dibromoethane (EDB)	U	0.14	U	0.14	U	0.14	U	0.14	
1,2-Dichlorobenzene	U	0.11	U	0.11	U	0.11	U	0.11	
1,3-Dichlorobenzene	U	0.11	U	0.11	U	0.11	U	0.11	
1,4-Dichlorobenzene	U	0.11	U	0.11	0.19	0.11	0.21	0.11	
Dichlorodifluoromethane (Freon 12)	2.0	0.089	2.1	0.089	2.1	0.089	2.1	0.089	
1,1-Dichloroethane	U	0.073	U	0.073	U	0.073	U	0.073	
1,2-Dichloroethane	0.074	0.073	U	0.073	0.28	0.073	0.30	0.073	
1,1-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071	
cis-1,2-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071	
trans-1,2-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071	
1,2-Dichloropropane	U J	0.083							
cis-1,3-Dichloropropene	U	0.082	U	0.082	U	0.082	U	0.082	
trans-1,3-Dichloropropene	U	0.082	U	0.082	U	0.082	U	0.082	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U	0.13	U	0.13	U	0.13	0.12	0.13	
1,4-Dioxane	U	1.3	U	1.3	U	1.3	U	1.3	
Ethyl Acetate	0.55	0.13	0.26	0.13	U	0.13	U	0.13	
Ethylbenzene	0.088	0.078	0.30	0.078	0.12	0.078	0.13	0.078	
4-Ethyltoluene	U	0.088	U	0.088	U	0.088	U	0.088	
Heptane	0.19	0.074	0.23	0.074	0.25	0.074	0.30	0.074	
Hexane	U	4.9	U	6.0	U	4.9	U	4.9	
2-Hexanone (MBK)	1.2 J	0.074	0.84 J	0.21	0.93 J	0.074	1.3 J	0.074	
Isopropanol	19	3.4	45	3.4	6.0	3.4	4.6	3.4	
Methyl tert-Butyl Ether (MTBE)	U	0.065	U	0.065	U	0.065	U	0.065	
Methylene Chloride	U	1.2	U	1.2	U	1.2	U	1.2	
4-Methyl-2-pentanone (MIBK)	0.83	0.074	0.84	0.074	0.97	0.074	0.97	0.074	
Propene	U	2.4	U	2.4	U	2.4	U	2.4	
Styrene	0.17	0.077	0.17	0.077	0.13	0.077	0.17	0.077	
1,1,2,2-Tetrachloroethane	U J	0.12							
Tetrachloroethylene	0.22	0.12	0.22	0.12	0.17	0.12	0.17	0.12	
Tetrahydrofuran	0.28	0.053	0.24	0.053	0.54	0.053	0.44	0.053	
Toluene	0.62	0.068	0.80	0.068	8.5	0.068	9.6	0.068	
1,1,1-Trichloroethane	U	0.098	U	0.098	U	0.098	U	0.098	
1,1,2-Trichloroethane	U J	0.098							
Trichloroethylene	U	0.097	U	0.097	U	0.097	U	0.097	
Trichlorofluoromethane (Freon 11)	1.4	0.10	1.3	0.10	1.4	0.10	1.4	0.10	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.56	0.14	0.58	0.14	0.55	0.14	0.58	0.14	
1,2,4-Trimethylbenzene	0.093	0.088	0.14	0.088	0.13	0.088	0.14	0.088	
1,3,5-Trimethylbenzene	U	0.088	U	0.088	U	0.088	U	0.088	
Vinyl Acetate	U J	2.5							
Vinyl Chloride	U	0.046	U	0.046	U	0.046	U	0.046	
m&p-Xylene	U	0.30	1.4	0.30	0.37	0.30	0.39	0.30	
o-Xylene	0.10	0.078	0.31	0.078	0.14	0.078	0.15	0.078	

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Table 1.1b (cont) Results of the Analysis for VOC ($\mu\text{g}/\text{m}^3$) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA TO-15				Page 5 of 14			
Laboratory Sample Number	14F1292-17		14F1292-18		14F1292-19		14F1292-20	
Sample Number	239-0614-0017		239-0614-0018		239-0614-0019		239-0614-0020	
Sample Location	Unit 012		Unit 013		Unit 013		Unit 014	
Sublocation	Ambient		Crawl Space		Ambient		Crawl Space	
Analyte	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$
Acetone	40 J	3.3	50 J	7.6	33 J	6.2	51 J	7.6
Benzene	0.41	0.058	0.19	0.058	0.16	0.058	1.4	0.058
Bromoform	U	0.19	U	0.19	U	0.19	U	0.19
Bromomethane	U	0.14	U	0.14	U	0.14	U	0.14
1,3-Butadiene	0.41	0.040	U	0.040	U	0.040	2.5	0.040
2-Butanone (MEK)	6.9	4.1	4.3	4.1	6.1	4.1	6.9	4.1
Carbon Tetrachloride	0.42	0.11	0.42	0.11	0.41	0.11	0.54	0.11
Chlorobenzene	U	0.083	U	0.083	U	0.083	U	0.083
Chloroethane	U	0.047	U	0.047	U	0.047	0.085	0.047
Chloroform	0.19	0.088	1.8	0.088	0.19	0.088	1.6	0.088
Chloromethane	1.5	0.14	0.68	0.14	1.2	0.14	1.9	0.14
Cyclohexane	U	0.12	0.47	0.12	U	0.12	0.69	0.12
Dibromochloromethane	U	0.15	U	0.15	U	0.15	U	0.15
1,2-Dibromoethane (EDB)	U	0.14	U	0.14	U	0.14	U	0.14
1,2-Dichlorobenzene	U	0.11	U	0.11	U	0.11	U	0.11
1,3-Dichlorobenzene	U	0.11	U	0.11	U	0.11	U	0.11
1,4-Dichlorobenzene	U	0.11	U	0.11	U	0.11	0.11	0.11
Dichlorodifluoromethane (Freon 12)	2.2	0.089	2.2	0.089	2.1	0.089	2.1	0.089
1,1-Dichloroethane	U	0.073	U	0.073	U	0.073	U	0.073
1,2-Dichloroethane	U	0.073	U	0.073	U	0.073	0.60	0.073
1,1-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071
cis-1,2-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071
trans-1,2-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071
1,2-Dichloropropane	U J	0.083						
cis-1,3-Dichloropropene	U	0.082	U	0.082	U	0.082	U	0.082
trans-1,3-Dichloropropene	U	0.082	U	0.082	U	0.082	U	0.082
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U	0.13	U	0.13	U	0.13	U	0.13
1,4-Dioxane	U	1.3	U	1.3	U	1.3	U	1.3
Ethyl Acetate	0.27	0.13	0.54	0.13	0.17	0.13	4.9	0.13
Ethylbenzene	0.18	0.078	0.13	0.078	U	0.078	0.61	0.078
4-Ethyltoluene	U	0.088	U	0.088	U	0.088	0.14	0.088
Heptane	0.24	0.074	0.70	0.074	0.12	0.074	1.4	0.074
Hexane	U	4.9	U	6.0	U	5.3	U	6.0
2-Hexanone (MBK)	0.96 J	0.074	0.52 J	0.074	0.98 J	0.20	0.41 J	0.074
Isopropanol	4.6	3.4	33	3.4	7.0	3.4	9.3	3.4
Methyl tert-Butyl Ether (MTBE)	U	0.065	U	0.065	U	0.065	U	0.065
Methylene Chloride	U	1.2	U	1.2	U	1.2	4.8	1.2
4-Methyl-2-pentanone (MIBK)	1.0	0.074	U	0.074	0.72	0.074	0.67	0.074
Propene	U	2.4	U	2.4	U	2.4	8.4	2.4
Styrene	0.21	0.077	0.13	0.077	0.12	0.077	0.81	0.077
1,1,2,2-Tetrachloroethane	U J	0.12	U J	0.12	U J	0.12	U	0.12
Tetrachloroethylene	0.16	0.12	0.24	0.12	0.17	0.12	0.23	0.12
Tetrahydrofuran	0.30	0.053	0.29	0.053	0.23	0.053	5.2	0.053
Toluene	1.4	0.068	1.2	0.068	0.39	0.068	6.7	0.068
1,1,1-Trichloroethane	U	0.098	U	0.098	U	0.098	U	0.098
1,1,2-Trichloroethane	U J	0.098						
Trichloroethylene	0.098	0.097	U	0.097	U	0.097	U	0.097
Trichlorofluoromethane (Freon 11)	1.4	0.10	1.4	0.10	1.4	0.10	2.3	0.10
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.60	0.14	0.59	0.14	0.56	0.14	0.56	0.14
1,2,4-Trimethylbenzene	0.17	0.088	0.086	0.088	U	0.088	0.67	0.088
1,3,5-Trimethylbenzene	U	0.088	U	0.088	U	0.088	0.21	0.088
Vinyl Acetate	U J	2.5						
Vinyl Chloride	U	0.046	U	0.046	U	0.046	U	0.046
m&p-Xylene	0.54	0.30	0.52	0.30	U	0.30	2.1	0.30
o-Xylene	0.19	0.078	0.16	0.078	U	0.078	0.69	0.078

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Table 1.1b (cont) Results of the Analysis for VOC ($\mu\text{g}/\text{m}^3$) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA TO-15

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Laboratory Sample Number	14F1292-21
Sample Number	239-0614-0021
Sample Location	Unit 014
Sublocation	Ambient

Analyte	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$
Acetone	47 J	3.3
Benzene	0.35	0.058
Bromoform	U	0.19
Bromomethane	U	0.14
1,3-Butadiene	U	0.040
2-Butanone (MEK)	11	4.1
Carbon Tetrachloride	0.40	0.11
Chlorobenzene	U	0.083
Chloroethane	U	0.047
Chloroform	0.20	0.088
Chloromethane	1.3	0.14
Cyclohexane	U	0.12
Dibromochloromethane	U	0.15
1,2-Dibromoethane (EDB)	U	0.14
1,2-Dichlorobenzene	U	0.11
1,3-Dichlorobenzene	U	0.11
1,4-Dichlorobenzene	U	0.11
Dichlorodifluoromethane (Freon 12)	2.1	0.089
1,1-Dichloroethane	U	0.073
1,2-Dichloroethane	U	0.073
1,1-Dichloroethylene	U	0.071
cis-1,2-Dichloroethylene	U	0.071
trans-1,2-Dichloroethylene	U	0.071
1,2-Dichloropropane	U J	0.083
cis-1,3-Dichloropropene	U	0.082
trans-1,3-Dichloropropene	U	0.082
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U	0.13
1,4-Dioxane	U	1.3
Ethyl Acetate	0.33	0.13
Ethylbenzene	0.24	0.078
4-Ethyltoluene	U	0.088
Heptane	0.28	0.074
Hexane	U	4.9
2-Hexanone (MBK)	1.6 J	0.074
Isopropanol	16	3.4
Methyl tert-Butyl Ether (MTBE)	U	0.065
Methylene Chloride	U	1.2
4-Methyl-2-pentanone (MIBK)	0.76	0.074
Propene	U	2.4
Styrene	0.12	0.077
1,1,2,2-Tetrachloroethane	U J	0.12
Tetrachloroethylene	0.16	0.12
Tetrahydrofuran	0.33	0.053
Toluene	1.3	0.068
1,1,1-Trichloroethane	U	0.098
1,1,2-Trichloroethane	U J	0.098
Trichloroethylene	U	0.097
Trichlorofluoromethane (Freon 11)	1.3	0.10
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.58	0.14
1,2,4-Trimethylbenzene	0.29	0.088
1,3,5-Trimethylbenzene	U	0.088
Vinyl Acetate	U J	2.5
Vinyl Chloride	U	0.046
m&p-Xylene	0.86	0.30
o-Xylene	0.29	0.078

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Table 1.1b (cont) Results of the Analysis for VOC ($\mu\text{g}/\text{m}^3$) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA TO-15	Page 7 of 14							
Laboratory Sample Number	B100143-BLK1	14F1292-13		14F1292-22		14F1292-23			
Sample Number	7/1/2014	239-0614-0013		239-0614-0022		239-0614-0023			
Sample Location	Method Blank	Unit 011		Unit 002		Unit 003			
Sublocation		SS		Ambient		Ambient			
Analyte	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	
Acetone	U	2.4	140	J 3.6	44	J 6.2	47	J 5.9	
Benzene	U	0.041	1.7	0.058	0.21	0.058	0.34	0.058	
Bromoform	U	0.14	U	0.19	U	0.19	U	0.19	
Bromomethane	U	0.10	U	0.14	U	0.14	U	0.14	
1,3-Butadiene	U	0.029	U	0.040	U	0.040	U	0.040	
2-Butanone (MEK)	U	2.9	24	4.1	7.9	4.1	4.5	4.1	
Carbon Tetrachloride	U	0.079	0.16	0.11	0.45	0.11	0.44	0.11	
Chlorobenzene	U	0.059	0.75	0.083	U	0.083	U	0.083	
Chloroethane	U	0.034	U	0.047	U	0.047	U	0.047	
Chloroform	U	0.063	7.0	0.088	0.13	0.088	0.14	0.088	
Chloromethane	U	0.10	0.48	0.14	1.2	0.14	1.4	0.14	
Cyclohexane	U	0.086	2.0	0.12	U	0.12	U	0.12	
Dibromochloromethane	U	0.11	U	0.15	U	0.15	U	0.15	
1,2-Dibromoethane (EDB)	U	0.10	U	0.14	U	0.14	U	0.14	
1,2-Dichlorobenzene	U	0.079	U	0.11	U	0.11	U	0.11	
1,3-Dichlorobenzene	U	0.079	U	0.11	U	0.11	U	0.11	
1,4-Dichlorobenzene	U	0.079	0.75	0.11	0.21	0.11	U	0.11	
Dichlorodifluoromethane (Freon 12)	U	0.064	1.0	0.089	2.0	0.089	2.1	0.089	
1,1-Dichloroethane	U	0.052	U	0.073	U	0.073	U	0.073	
1,2-Dichloroethane	U	0.052	0.68	0.073	0.12	0.073	U	0.073	
1,1-Dichloroethylene	U	0.051	U	0.071	U	0.071	U	0.071	
cis-1,2-Dichloroethylene	U	0.051	U	0.071	U	0.071	U	0.071	
trans-1,2-Dichloroethylene	U	0.051	U	0.071	U	0.071	U	0.071	
1,2-Dichloropropane	U	0.059	U	0.083	U	0.083	U	0.083	
cis-1,3-Dichloropropene	U	0.059	U	0.082	U	0.082	U	0.082	
trans-1,3-Dichloropropene	U	0.059	U	0.082	U	0.082	U	0.082	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U	0.093	0.17	0.13	U	0.13	U	0.13	
1,4-Dioxane	U	0.93	U	1.3	U	1.3	U	1.3	
Ethyl Acetate	U	0.093	1.4	0.13	U	0.13	U	0.13	
Ethylbenzene	U	0.056	2.3	0.078	0.098	0.078	0.29	0.078	
4-Ethyltoluene	U	0.063	0.40	0.088	U	0.088	0.097	0.088	
Heptane	U	0.053	3.7	0.074	0.20	0.074	0.70	0.074	
Hexane	U	3.5	U	4.9	U	8.5	U	5.3	
2-Hexanone (MBK)	U	0.053	5.4	J 0.074	1.3	J 0.074	0.54	J 0.074	
Isopropanol	U	2.4	9.9	3.4	18	3.4	36	3.4	
Methyl tert-Butyl Ether (MTBE)	U	0.093	U	0.13	U	0.13	U	0.13	
Methylene Chloride	U	0.86	U	1.2	U	1.2	U	1.2	
4-Methyl-2-pentanone (MIBK)	U	0.053	3.1	0.074	0.89	0.074	0.53	0.074	
Propene	U	1.7	9.2	2.4	U	2.4	U	2.4	
Styrene	U	0.055	0.80	0.077	0.11	0.077	0.099	0.077	
1,1,2,2-Tetrachloroethane	U	0.086	U	0.12	U	0.12	U	0.12	
Tetrachloroethylene	U	0.086	4.9	0.12	0.17	0.12	0.19	0.12	
Tetrahydrofuran	U	0.038	0.64	0.053	0.12	0.053	0.21	0.053	
Toluene	U	0.049	8.4	0.068	0.73	0.068	3.2	0.068	
1,1,1-Trichloroethane	U	0.070	2.0	0.098	U	0.098	U	0.098	
1,1,2-Trichloroethane	U	0.070	U	0.098	U	0.098	U	0.098	
Trichloroethylene	U	0.069	U	0.097	U	0.097	U	0.097	
Trichlorofluoromethane (Freon 11)	U	0.071	2.0	0.10	1.4	0.10	1.4	0.10	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	U	0.10	0.65	0.14	0.55	0.14	0.56	0.14	
1,2,4-Trimethylbenzene	U	0.063	1.9	0.088	0.12	0.088	0.30	0.088	
1,3,5-Trimethylbenzene	U	0.063	0.67	0.088	U	0.088	U	0.088	
Vinyl Acetate	U	1.8	U	J 2.5	U	J 2.5	U	J 2.5	
Vinyl Chloride	U	0.033	U	0.046	U	0.046	U	0.046	
m&p-Xylene	U	0.21	4.4	0.30	U	0.30	1.1	0.30	
o-Xylene	U	0.056	1.7	0.078	0.10	0.078	0.35	0.078	

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Table 1.1b (cont) Results of the Analysis for VOC ($\mu\text{g}/\text{m}^3$) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA TO-15	Page 8 of 14							
Laboratory Sample Number	14F1292-24	14F1292-25		14F1292-26		14F1292-27			
Sample Number	239-0614-0024	239-0614-0029		239-0614-0030		239-0614-0031			
Sample Location	Unit 015		Unit 018		Unit 019		Unit 020		
Sublocation	Crawl Space		CS-Co		Crawl Space		Crawl Space		
Analyte	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	
Acetone	79 J	4.5	29 J	5.9	38 J	3.3	45 J	5.7	
Benzene	1.1	0.058	0.24	0.058	0.41	0.058	0.20	0.058	
Bromoform	U	0.19	U	0.19	U	0.19	U	0.19	
Bromomethane	U	0.14	U	0.14	U	0.14	U	0.14	
1,3-Butadiene	1.4	0.040	U	0.040	U	0.040	U	0.040	
2-Butanone (MEK)	7.4	4.1	U	4.1	7.3	4.1	10	4.1	
Carbon Tetrachloride	0.46	0.11	0.44	0.11	0.46	0.11	0.44	0.11	
Chlorobenzene	U	0.083	U	0.083	U	0.083	U	0.083	
Chloroethane	0.11	0.047	U	0.047	U	0.047	0.054	0.047	
Chloroform	0.85	0.088	0.70	0.088	0.41	0.088	0.25	0.088	
Chloromethane	2.3	0.14	0.97	0.14	1.2	0.14	0.51	0.14	
Cyclohexane	U	0.12	U	0.12	U	0.12	U	0.12	
Dibromochloromethane	U	0.15	U	0.15	U	0.15	U	0.15	
1,2-Dibromoethane (EDB)	U	0.14	U	0.14	U	0.14	U	0.14	
1,2-Dichlorobenzene	U	0.11	U	0.11	U	0.11	U	0.11	
1,3-Dichlorobenzene	U	0.11	U	0.11	U	0.11	0.14	0.11	
1,4-Dichlorobenzene	U	0.11	U	0.11	U	0.11	0.99	0.11	
Dichlorodifluoromethane (Freon 12)	2.2	0.089	2.0	0.089	2.1	0.089	2.1	0.089	
1,1-Dichloroethane	U	0.073	U	0.073	U	0.073	U	0.073	
1,2-Dichloroethane	0.44	0.073	0.14	0.073	0.63	0.073	U	0.073	
1,1-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071	
cis-1,2-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071	
trans-1,2-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071	
1,2-Dichloropropane	U	0.083	U	0.083	U	0.083	U	0.083	
cis-1,3-Dichloropropene	U	0.082	U	0.082	U	0.082	U	0.082	
trans-1,3-Dichloropropene	U	0.082	U	0.082	U	0.082	U	0.082	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U	0.13	U	0.13	U	0.13	U	0.13	
1,4-Dioxane	U	1.3	U	1.3	U	1.3	U	1.3	
Ethyl Acetate	0.48	0.13	1.9	0.13	0.31	0.13	0.72	0.13	
Ethylbenzene	0.69	0.078	0.18	0.078	0.26	0.078	0.27	0.078	
4-Ethyltoluene	0.16	0.088	U	0.088	U	0.088	U	0.088	
Heptane	1.6	0.074	0.19	0.074	0.22	0.074	0.37	0.074	
Hexane	U	15	U	17	U	4.9	U	17	
2-Hexanone (MBK)	1.4 J	0.074	0.46 J	0.074	1.3 J	0.074	2.1 J	0.074	
Isopropanol	90	3.4	5.0	3.4	4.7	3.4	6.1	3.4	
Methyl tert-Butyl Ether (MTBE)	U	0.13	U	0.13	U	0.13	U	0.13	
Methylene Chloride	U	1.2	U	1.2	U	1.2	U	1.2	
4-Methyl-2-pentanone (MIBK)	0.80	0.074	0.67	0.074	1.0	0.074	0.90	0.074	
Propene	6.8	2.4	U	2.4	U	2.4	U	2.4	
Styrene	0.41	0.077	0.13	0.077	0.22	0.077	0.26	0.077	
1,1,2,2-Tetrachloroethane	U	0.12	U	0.12	U	0.12	U	0.12	
Tetrachloroethylene	0.18	0.12	0.17	0.12	0.16	0.12	0.91	0.12	
Tetrahydrofuran	0.39	0.053	0.29	0.053	0.43	0.053	0.34	0.053	
Toluene	4.4	0.068	1.3	0.068	1.1	0.068	2.7	0.068	
1,1,1-Trichloroethane	U	0.098	U	0.098	U	0.098	U	0.098	
1,1,2-Trichloroethane	U	0.098	U	0.098	U	0.098	U	0.098	
Trichloroethylene	0.12	0.097	U	0.097	0.098	0.097	0.094	0.097	
Trichlorofluoromethane (Freon 11)	2.8	0.10	1.7	0.10	1.4	0.10	1.5	0.10	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.58	0.14	0.54	0.14	0.56	0.14	0.59	0.14	
1,2,4-Trimethylbenzene	0.71	0.088	0.26	0.088	0.26	0.088	0.19	0.088	
1,3,5-Trimethylbenzene	0.22	0.088	U	0.088	0.26	0.088	U	0.088	
Vinyl Acetate	U J	2.5							
Vinyl Chloride	U	0.046	U	0.046	U	0.046	U	0.046	
m&p-Xylene	2.3	0.30	0.66	0.30	1.5	0.30	0.94	0.30	
o-Xylene	0.76	0.078	0.27	0.078	0.26	0.078	0.23	0.078	

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Table 1.1b (cont) Results of the Analysis for VOC ($\mu\text{g}/\text{m}^3$) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA TO-15	Page 9 of 14							
Laboratory Sample Number	14F1292-28	14F1292-29		14F1292-30		14F1292-31			
Sample Number	239-0614-0032	239-0614-0037		239-0614-0038		239-0614-0039			
Sample Location	Unit 021		Unit 024		Unit 025		Unit 026		
Sublocation	Crawl Space		Ambient		Crawl Space		Crawl Space		
Analyte	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	
Acetone	45 J	22	38 J	5.7	49 J	5.0	27 J	5.0	
Benzene	0.93	0.093	0.25	0.058	0.38	0.058	0.20	0.058	
Bromoform	U	0.19	U	0.19	U	0.19	U	0.19	
Bromomethane	U	0.14	U	0.14	U	0.14	U	0.14	
1,3-Butadiene	0.31	0.040	U	0.040	0.22	0.040	U	0.040	
2-Butanone (MEK)	U	4.1	7.8	4.1	4.7	4.1	U	4.1	
Carbon Tetrachloride	0.42	0.11	0.45	0.11	0.43	0.11	0.43	0.11	
Chlorobenzene	U	0.083	U	0.083	U	0.083	U	0.083	
Chloroethane	U	0.047	U	0.047	U	0.047	U	0.047	
Chloroform	1.7	0.088	0.12	0.088	0.12	0.088	0.27	0.088	
Chloromethane	1.1	0.14	1.3	0.14	1.2	0.14	0.78	0.14	
Cyclohexane	0.76	0.12	U	0.12	3.7	0.12	U	0.12	
Dibromochloromethane	U	0.15	U	0.15	U	0.15	U	0.15	
1,2-Dibromoethane (EDB)	U	0.14	U	0.14	U	0.14	U	0.14	
1,2-Dichlorobenzene	U	0.11	U	0.11	U	0.11	U	0.11	
1,3-Dichlorobenzene	U	0.11	U	0.11	U	0.11	U	0.11	
1,4-Dichlorobenzene	0.21	0.11	U	0.11	U	0.11	U	0.11	
Dichlorodifluoromethane (Freon 12)	2.1	0.089	2.1	0.089	2.1	0.089	2.1	0.089	
1,1-Dichloroethane	U	0.073	U	0.073	U	0.073	U	0.073	
1,2-Dichloroethane	U	0.073	U	0.073	U	0.073	U	0.073	
1,1-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071	
cis-1,2-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071	
trans-1,2-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071	
1,2-Dichloropropane	U	0.083	U	0.083	U	0.083	U	0.083	
cis-1,3-Dichloropropene	U	0.082	U	0.082	U	0.082	U	0.082	
trans-1,3-Dichloropropene	U	0.082	U	0.082	U	0.082	U	0.082	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U	0.13	U	0.13	U	0.13	U	0.13	
1,4-Dioxane	U	1.3	U	1.3	U	1.3	U	1.3	
Ethyl Acetate	49	0.13	0.34	0.13	0.39	0.13	U	0.13	
Ethylbenzene	0.74	0.078	0.22	0.078	0.23	0.078	0.18	0.078	
4-Ethyltoluene	0.22	0.088	U	0.088	0.10	0.088	U	0.088	
Heptane	0.83	0.074	0.31	0.074	0.83	0.074	0.17	0.074	
Hexane	U	17	U	8.5	U	8.5	U	8.5	
2-Hexanone (MBK)	U J	0.490	1.1 J	0.074	0.60 J	0.074	0.48 J	0.074	
Isopropanol	40	3.4	6.5	3.4	8.5	3.4	9.3	3.4	
Methyl tert-Butyl Ether (MTBE)	U	0.13	U	0.13	U	0.13	U	0.13	
Methylene Chloride	3.5	1.2	U	1.2	U	1.2	U	1.2	
4-Methyl-2-pentanone (MIBK)	0.74 J	0.45	0.89	0.074	0.71	0.074	0.69	0.074	
Propene	U	2.4	U	2.4	U	2.4	U	2.4	
Styrene	0.86	0.077	0.14	0.077	0.17	0.077	0.11	0.077	
1,1,2,2-Tetrachloroethane	U	0.12	U	0.12	U	0.12	U	0.12	
Tetrachloroethylene	0.28	0.12	0.31	0.12	0.32	0.12	0.34	0.12	
Tetrahydrofuran	1.6	0.053	0.32	0.053	0.43	0.053	0.32	0.053	
Toluene	8.4	0.083	1.1	0.068	1.4	0.068	1.0	0.068	
1,1,1-Trichloroethane	U	0.098	U	0.098	U	0.098	U	0.098	
1,1,2-Trichloroethane	U	0.098	U	0.098	U	0.098	U	0.098	
Trichloroethylene	0.30	0.097	0.10	0.097	0.098	0.097	U	0.097	
Trichlorofluoromethane (Freon 11)	1.6	0.10	1.4	0.10	1.4	0.10	1.4	0.10	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.59	0.14	0.59	0.14	0.59	0.14	0.59	0.14	
1,2,4-Trimethylbenzene	0.88	0.088	0.28	0.088	0.32	0.088	0.15	0.088	
1,3,5-Trimethylbenzene	0.27	0.088	U	0.088	0.090	0.088	U	0.088	
Vinyl Acetate	U J	2.5							
Vinyl Chloride	U	0.046	U	0.046	U	0.046	U	0.046	
m&p-Xylene	2.3	0.30	0.83	0.30	0.90	0.30	0.69	0.30	
o-Xylene	0.96	0.078	0.32	0.078	0.37	0.078	0.28	0.078	

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Table 1.1b (cont) Results of the Analysis for VOC ($\mu\text{g}/\text{m}^3$) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA TO-15				Page 10 of 14			
Laboratory Sample Number	14F1292-32		14F1292-33		14F1292-34		14F1292-35	
Sample Number	239-0614-0040		239-0614-0041		239-0614-0042		239-0614-0043	
Sample Location	Unit 027 SS		Unit 028 Crawl Space		Unit 029 Crawl Space		Unit 030 Crawl Space	
Analyte	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$
Acetone	110 J	8.1	65 J	8.1	38 J	6.4	38 J	3.3
Benzene	0.49	0.058	0.41	0.058	0.22	0.058	0.22	0.058
Bromoform	U	0.19	U	0.19	U	0.19	U	0.19
Bromomethane	U	0.14	U	0.14	U	0.14	U	0.14
1,3-Butadiene	U	0.040	0.26	0.040	U	0.040	U	0.040
2-Butanone (MEK)	19	4.1	7.2	4.1	6.8	4.1	6.9	4.1
Carbon Tetrachloride	0.33	0.11	0.46	0.11	0.43	0.11	0.42	0.11
Chlorobenzene	0.51	0.083	U	0.083	U	0.083	U	0.083
Chloroethane	U	0.047	U	0.047	U	0.047	U	0.047
Chloroform	0.26	0.088	0.40	0.088	0.53	0.088	0.32	0.088
Chloromethane	0.18	0.14	0.99	0.14	1.2	0.14	1.1	0.14
Cyclohexane	1.3	0.12	U	0.12	U	0.12	U	0.12
Dibromochloromethane	U	0.15	U	0.15	U	0.15	U	0.15
1,2-Dibromoethane (EDB)	U	0.14	U	0.14	U	0.14	U	0.14
1,2-Dichlorobenzene	U	0.11	U	0.11	U	0.11	U	0.11
1,3-Dichlorobenzene	U	0.11	U	0.11	U	0.11	U	0.11
1,4-Dichlorobenzene	0.18	0.11	0.11	0.11	U	0.11	7.8	0.11
Dichlorodifluoromethane (Freon 12)	2.5	0.089	2.2	0.089	2.1	0.089	2.2	0.089
1,1-Dichloroethane	U	0.073	U	0.073	U	0.073	U	0.073
1,2-Dichloroethane	U	0.073	0.35	0.073	0.28	0.073	0.41	0.073
1,1-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071
cis-1,2-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071
trans-1,2-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071
1,2-Dichloropropane	U	0.083	U	0.083	U	0.083	U	0.083
cis-1,3-Dichloropropene	U	0.082	U	0.082	U	0.082	U	0.082
trans-1,3-Dichloropropene	U	0.082	U	0.082	U	0.082	U	0.082
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.15	0.13	0.12	0.13	U	0.13	U	0.13
1,4-Dioxane	U	1.3	U	1.3	U	1.3	U	1.3
Ethyl Acetate	0.86	0.13	0.29	0.13	0.29	0.13	0.21	0.13
Ethylbenzene	1.2	0.078	0.67	0.078	0.66	0.078	0.14	0.078
4-Ethyltoluene	0.15	0.088	U	0.088	0.11	0.088	U	0.088
Heptane	1.2	0.074	0.72	0.074	0.26	0.074	0.20	0.074
Hexane	U	6.0	U	6.0	U	6.0	U	4.9
2-Hexanone (MBK)	3.6 J	0.28	1.3 J	0.37	1.3 J	0.23	1.0 J	0.074
Isopropanol	8.7	3.4	8.9	3.4	U	3.4	5.0	3.4
Methyl tert-Butyl Ether (MTBE)	U	0.13	U	0.13	U	0.13	U	0.13
Methylene Chloride	U	1.2	U	1.2	U	1.2	U	1.2
4-Methyl-2-pentanone (MIBK)	2.8	0.20	U	0.074	0.67	0.074	0.51	0.074
Propene	U	2.4	U	2.4	U	2.4	U	2.4
Styrene	0.69	0.077	0.27	0.077	0.22	0.077	0.14	0.077
1,1,2,2-Tetrachloroethane	U	0.12	U	0.12	U	0.12	U	0.12
Tetrachloroethylene	0.77	0.12	0.38	0.12	0.31	0.12	0.16	0.12
Tetrahydrofuran	0.34	0.053	0.75	0.053	0.20	0.053	0.15	0.053
Toluene	4.5	0.068	2.5	0.068	2.2	0.068	0.68	0.068
1,1,1-Trichloroethane	1.3	0.098	U	0.098	U	0.098	U	0.098
1,1,2-Trichloroethane	U	0.098	U	0.098	U	0.098	U	0.098
Trichloroethylene	U	0.097	0.13	0.097	0.12	0.097	0.11	0.097
Trichlorofluoromethane (Freon 11)	4.7	0.10	1.5	0.10	1.4	0.10	1.4	0.10
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.58	0.14	0.60	0.14	0.60	0.14	0.59	0.14
1,2,4-Trimethylbenzene	1.2	0.088	0.40 J	0.098	0.46	0.088	0.17	0.088
1,3,5-Trimethylbenzene	0.41	0.088	0.13	0.088	0.15	0.088	U	0.088
Vinyl Acetate	U J	2.5						
Vinyl Chloride	U	0.046	U	0.046	U	0.046	U	0.046
m&p-Xylene	5.5	0.30	3.4	0.30	3.4	0.30	0.42	0.30
o-Xylene	2.6	0.078	1.5	0.078	1.5	0.078	0.16	0.078

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Table 1.1b (cont) Results of the Analysis for VOC ($\mu\text{g}/\text{m}^3$) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA TO-15	Page 11 of 14							
Laboratory Sample Number	14F1292-36	14F1292-37		14F1292-38		14F1292-39			
Sample Number	239-0614-0044	239-0614-0045		239-0614-0046		239-0614-0047			
Sample Location	Unit 031		Unit 031		Unit 032		Unit 032		
Sublocation	Crawl Space		Ambient		SS		Ambient		
Analyte	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	
Acetone	24	J 4.3	41	J 4.3	130	J 3.3	44	J 4.8	
Benzene	0.19	0.058	0.30	0.058	1.4	0.058	0.41	0.058	
Bromoform	U	0.19	U	0.19	U	0.19	U	0.19	
Bromomethane	U	0.14	U	0.14	U	0.14	U	0.14	
1,3-Butadiene	U	0.040	U	0.040	U	0.040	0.52	0.040	
2-Butanone (MEK)	5.2	4.1	6.0	4.1	17	4.1	6.3	4.1	
Carbon Tetrachloride	0.44	0.11	0.43	0.11	0.19	0.11	0.47	0.11	
Chlorobenzene	U	0.083	U	0.083	0.20	0.083	U	0.083	
Chloroethane	U	0.047	U	0.047	U	0.047	U	0.047	
Chloroform	0.17	0.088	0.14	0.088	6.5	0.088	0.19	0.088	
Chloromethane	0.73	0.14	1.4	0.14	0.37	0.14	1.7	0.14	
Cyclohexane	U	0.12	U	0.12	0.87	0.12	U	0.12	
Dibromochloromethane	U	0.15	U	0.15	U	0.15	U	0.15	
1,2-Dibromoethane (EDB)	U	0.14	U	0.14	U	0.14	U	0.14	
1,2-Dichlorobenzene	U	0.11	U	0.11	U	0.11	U	0.11	
1,3-Dichlorobenzene	U	0.11	U	0.11	U	0.11	U	0.11	
1,4-Dichlorobenzene	U	0.11	U	0.11	14	0.11	13	0.11	
Dichlorodifluoromethane (Freon 12)	2.0	0.089	2.2	0.089	1.5	J 0.089	2.3	0.089	
1,1-Dichloroethane	U	0.073	U	0.073	U	0.073	U	0.073	
1,2-Dichloroethane	U	0.073	U	0.073	U	0.073	U	0.073	
1,1-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071	
cis-1,2-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071	
trans-1,2-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071	
1,2-Dichloropropane	U	0.083	U	0.083	U	0.083	U	0.083	
cis-1,3-Dichloropropene	U	0.082	U	0.082	U	0.082	U	0.082	
trans-1,3-Dichloropropene	U	0.082	U	0.082	U	0.082	U	0.082	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U	0.13	U	0.13	0.14	0.13	0.12	0.13	
1,4-Dioxane	U	1.3	U	1.3	U	1.3	U	1.3	
Ethyl Acetate	0.23	0.13	0.34	0.13	0.73	0.13	0.55	0.13	
Ethylbenzene	0.19	0.078	0.31	0.078	1.5	0.078	0.36	0.078	
4-Ethyltoluene	U	0.088	0.097	0.088	0.43	0.088	0.11	0.088	
Heptane	4.5	0.074	0.41	0.074	2.1	0.074	0.40	0.074	
Hexane	U	16	U	16	U	4.9	U	12	
2-Hexanone (MBK)	0.93	J 0.074	0.62	J 0.074	2.1	J 0.074	0.66	J 0.074	
Isopropanol	4.0	3.4	14	3.4	6.7	J 3.4	9.8	3.4	
Methyl tert-Butyl Ether (MTBE)	U	0.13	U	0.13	U	0.13	U	0.13	
Methylene Chloride	U	1.2	U	1.2	U	1.2	1.4	1.2	
4-Methyl-2-pentanone (MIBK)	0.59	0.074	0.53	0.074	2.1	0.074	0.56	0.074	
Propene	U	2.4	U	2.4	3.4	2.4	U	2.4	
Styrene	0.075	0.077	0.081	0.077	0.45	0.077	0.16	0.077	
1,1,2,2-Tetrachloroethane	U	0.12	U	0.12	U	0.12	U	0.12	
Tetrachloroethylene	0.17	0.12	U	0.12	2.9	0.12	U	0.12	
Tetrahydrofuran	0.12	0.053	0.14	0.053	0.40	0.053	0.16	0.053	
Toluene	11	0.068	1.4	0.068	4.9	0.068	2.7	0.068	
1,1,1-Trichloroethane	U	0.098	U	0.098	0.27	0.098	U	0.098	
1,1,2-Trichloroethane	U	0.098	U	0.098	U	0.098	U	0.098	
Trichloroethylene	0.45	0.097	0.67	0.097	U	0.097	0.66	0.097	
Trichlorofluoromethane (Freon 11)	1.5	0.10	1.5	0.10	1.9	0.10	1.6	0.10	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.55	J 0.31	0.65	0.14	0.70	0.14	0.66	0.14	
1,2,4-Trimethylbenzene	0.27	0.088	0.32	0.088	2.9	0.088	0.39	0.088	
1,3,5-Trimethylbenzene	U	0.088	0.10	0.088	0.74	0.088	0.10	0.088	
Vinyl Acetate	U	J 2.5							
Vinyl Chloride	U	0.046	U	0.046	U	0.046	U	0.046	
m&p-Xylene	0.61	0.30	1.2	0.30	3.4	0.30	1.3	0.30	
o-Xylene	0.25	0.078	0.43	0.078	1.9	0.078	0.42	0.078	

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Table 1.1b (cont) Results of the Analysis for VOC ($\mu\text{g}/\text{m}^3$) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA TO-15	Page 12 of 14								
Laboratory Sample Number	B100144-BLK1	14F1292-40		14F1292-41		14F1292-42				
Sample Number	7/2/2014	239-0614-0048		239-0614-0025		239-0614-0026				
Sample Location	Method Blank		Trip		Unit 015		Unit 016			
Sublocation	Trip		Ambient		Crawl Space					
Analyte	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$		
Acetone	U	2.4	U	3.3	39	6.4	78	3.3		
Benzene	U	0.041	U	0.058	0.39	0.058	0.26	0.058		
Bromoform	U	0.14	U	0.19	U	0.19	U	0.19		
Bromomethane	U	0.10	U	0.14	U	0.14	U	0.14		
1,3-Butadiene	U	0.029	U	0.040	U	0.040	U	0.040		
2-Butanone (MEK)	U	2.9	U	4.1	6.0	4.1	9.9	4.1		
Carbon Tetrachloride	U	0.079	U	0.11	0.46	0.11	0.51	0.11		
Chlorobenzene	U	0.059	U	0.083	U	0.083	U	0.083		
Chloroethane	U	0.034	U	0.047	U	0.047	U	0.047		
Chloroform	U	0.063	U	0.088	0.12	0.088	1.1	0.088		
Chloromethane	U	0.10	U	0.14	1.3	0.14	1.3	0.14		
Cyclohexane	U	0.086	U	0.12	0.21	0.12	U	0.12		
Dibromochloromethane	U	0.11	U	0.15	U	0.15	U	0.15		
1,2-Dibromoethane (EDB)	U	0.10	U	0.14	U	0.14	U	0.14		
1,2-Dichlorobenzene	U	0.079	U	0.11	U	0.11	U	0.11		
1,3-Dichlorobenzene	U	0.079	U	0.11	U	0.11	U	0.11		
1,4-Dichlorobenzene	U	0.079	U	0.11	U	0.11	U	0.11		
Dichlorodifluoromethane (Freon 12)	U	0.064	U	0.089	2.3	0.089	2.9	0.089		
1,1-Dichloroethane	U	0.052	U	0.073	U	0.073	U	0.073		
1,2-Dichloroethane	U	0.052	U	0.073	U	0.073	0.33	0.073		
1,1-Dichloroethylene	U	0.051	U	0.071	U	0.071	U	0.071		
cis-1,2-Dichloroethylene	U	0.051	U	0.071	U	0.071	U	0.071		
trans-1,2-Dichloroethylene	U	0.051	U	0.071	U	0.071	U	0.071		
1,2-Dichloropropane	U	0.059	U	0.083	U	0.083	U	0.083		
cis-1,3-Dichloropropene	U	0.059	U	0.082	U	0.082	U	0.082		
trans-1,3-Dichloropropene	U	0.059	U	0.082	U	0.082	U	0.082		
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U	0.093	U	0.13	U	0.13	0.12	0.13		
1,4-Dioxane	U	0.93	U	1.3	U	1.3	U	1.3		
Ethyl Acetate	U	0.093	U	0.13	0.19	0.13	0.52	0.13		
Ethylbenzene	U	0.056	U	0.078	0.46	0.078	0.14	0.078		
4-Ethyltoluene	U	0.063	U	0.088	0.17	0.088	U	0.088		
Heptane	U	0.053	U	0.074	0.68	0.074	0.26	0.074		
Hexane	U	3.5	U	4.9	U	17	U	4.9		
2-Hexanone (MBK)	U	0.053	U J	0.074	0.69	J 0.074	1.4	J 0.074		
Isopropanol	U	2.4	U	3.4	4.8	3.4	30	3.4		
Methyl tert-Butyl Ether (MTBE)	U	0.093	U	0.13	U	0.13	U	0.13		
Methylene Chloride	U	0.86	U	1.2	U	1.2	U	1.2		
4-Methyl-2-pentanone (MIBK)	U	0.053	U	0.074	0.77	0.074	1.3	0.074		
Propene	U	1.7	U	2.4	U	2.4	U	2.4		
Styrene	U	0.055	U	0.077	0.090	0.077	0.18	0.077		
1,1,2,2-Tetrachloroethane	U	0.086	U J	0.12	U J	0.12	U J	0.12		
Tetrachloroethylene	U	0.086	U	0.12	U	0.12	U	0.12		
Tetrahydrofuran	U	0.038	U	0.053	0.29	0.053	0.34	0.053		
Toluene	U	0.049	U	0.068	2.5	0.068	0.88	0.068		
1,1,1-Trichloroethane	U	0.070	U	0.098	U	0.098	U	0.098		
1,1,2-Trichloroethane	U	0.070	U	0.098	U	0.098	U	0.098		
Trichloroethylene	U	0.069	U	0.097	0.12	0.097	0.094	0.097		
Trichlorofluoromethane (Freon 11)	U	0.071	U	0.10	1.5	0.10	1.6	0.10		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	U	0.10	U	0.14	0.61	0.14	0.65	0.14		
1,2,4-Trimethylbenzene	U	0.063	U	0.088	0.56	0.088	0.18	0.088		
1,3,5-Trimethylbenzene	U	0.063	U	0.088	0.15	0.088	U	0.088		
Vinyl Acetate	U	1.8	U J	2.5	U J	2.5	U J	2.5		
Vinyl Chloride	U	0.033	U	0.046	U	0.046	U	0.046		
m&p-Xylene	U	0.21	U	0.30	1.6	0.30	0.41	0.30		
o-Xylene	U	0.056	U	0.078	0.57	0.078	0.16	0.078		

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Table 1.1b (cont) Results of the Analysis for VOC ($\mu\text{g}/\text{m}^3$) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA TO-15	Page 13 of 14								
Laboratory Sample Number	14F1292-43	14F1292-44		14F1292-45		14F1292-46				
Sample Number	239-0614-0027	239-0614-0028		239-0614-0033		239-0614-0034				
Sample Location	Unit 017		Unit 018		Unit 021		Unit 022			
Sublocation	Crawl Space		Crawl Space		Ambient		Crawl Space			
Analyte	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$		
Acetone	540	48	35	3.3	31	3.8	58	6.9		
Benzene	0.21	0.058	0.30	0.058	0.26	0.093	0.37	0.058		
Bromoform	U	0.19	U	0.19	U	0.19	U	0.19		
Bromomethane	U	0.14	U	0.14	U	0.14	U	0.14		
1,3-Butadiene	U	0.040	U	0.040	U	0.040	U	0.040		
2-Butanone (MEK)	6.3	4.1	6.5	4.1	5.4	4.1	7.6	4.1		
Carbon Tetrachloride	0.59	0.11	0.48	0.11	0.48	0.11	0.48	0.11		
Chlorobenzene	U	0.083	U	0.083	U	0.083	U	0.083		
Chloroethane	0.091	0.047	0.15	0.047	U	0.047	U	0.047		
Chloroform	0.67	0.088	0.72	0.088	0.12	0.088	1.1	0.088		
Chloromethane	1.3	0.14	1.1	0.14	1.4	0.14	0.98	0.14		
Cyclohexane	U	0.12	U	0.12	U	0.12	U	0.12		
Dibromochloromethane	U	0.15	U	0.15	U	0.15	U	0.15		
1,2-Dibromoethane (EDB)	U	0.14	U	0.14	U	0.14	U	0.14		
1,2-Dichlorobenzene	U	0.11	U	0.11	U	0.11	U	0.11		
1,3-Dichlorobenzene	U	0.11	U	0.11	U	0.11	U	0.11		
1,4-Dichlorobenzene	U	0.11	U	0.11	U	0.11	U	0.11		
Dichlorodifluoromethane (Freon 12)	2.2	0.089	2.3	0.089	2.3	0.089	2.3	0.089		
1,1-Dichloroethane	U	0.073	U	0.073	U	0.073	U	0.073		
1,2-Dichloroethane	U	0.073	0.16	0.073	U	0.073	0.33	0.073		
1,1-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071		
cis-1,2-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071		
trans-1,2-Dichloroethylene	U	0.071	U	0.071	U	0.071	U	0.071		
1,2-Dichloropropane	U	0.083	U	0.083	U	0.083	U	0.083		
cis-1,3-Dichloropropene	U	0.082	U	0.082	U	0.082	U	0.082		
trans-1,3-Dichloropropene	U	0.082	U	0.082	U	0.082	U	0.082		
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U	0.13	U	0.13	0.12	0.13	0.13	0.13		
1,4-Dioxane	U	1.3	U	1.3	U	1.3	U	1.3		
Ethyl Acetate	0.43	0.13	2.1	0.13	0.19	0.13	8.8	0.13		
Ethylbenzene	0.16	0.078	0.23	0.078	0.17	0.078	0.98	0.078		
4-Ethyltoluene	U	0.088	U	0.088	U	0.088	0.15	0.088		
Heptane	0.18	0.074	0.24	0.074	0.23	0.074	0.43	0.074		
Hexane	U	16	U	4.9	U	16	U	6.0		
2-Hexanone (MBK)	0.75	J 0.074	1.2	J 0.074	0.70	J 0.074	1.3	J 0.23		
Isopropanol	920	49	4.8	3.4	4.8	3.4	5.3	3.4		
Methyl tert-Butyl Ether (MTBE)	U	0.13	U	0.13	U	0.13	U	0.13		
Methylene Chloride	U	1.2	U	1.2	U	1.2	U	1.2		
4-Methyl-2-pentanone (MIBK)	0.69	0.074	0.54	0.074	0.32	0.074	0.99	0.16		
Propene	U	2.4	U	2.4	U	2.4	U	2.4		
Styrene	0.27	0.077	0.16	0.077	U	0.077	0.43	0.077		
1,1,2,2-Tetrachloroethane	U	J 0.12								
Tetrachloroethylene	U	0.12	U	0.12	U	0.12	0.34	0.12		
Tetrahydrofuran	0.44	0.053	0.32	0.053	0.18	0.053	0.36	0.053		
Toluene	1.1	0.068	1.5	0.068	0.87	0.068	5.2	0.068		
1,1,1-Trichloroethane	U	0.098	U	0.098	U	0.098	U	0.098		
1,1,2-Trichloroethane	U	0.098	U	0.098	U	0.098	U	0.098		
Trichloroethylene	U	0.097	U	0.097	0.094	0.097	0.12	0.097		
Trichlorofluoromethane (Freon 11)	1.8	0.10	1.9	0.10	1.6	0.10	1.6	0.10		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.63	0.14	0.60	0.14	0.69	0.14	0.65	0.14		
1,2,4-Trimethylbenzene	0.18	0.088	0.29	0.088	0.24	0.088	0.67	0.088		
1,3,5-Trimethylbenzene	U	0.088	U	0.088	U	0.088	0.18	0.088		
Vinyl Acetate	U	J 2.5								
Vinyl Chloride	U	0.046	U	0.046	U	0.046	U	0.046		
m&p-Xylene	0.59	0.30	0.73	0.30	0.57	0.30	4.5	0.30		
o-Xylene	0.23	0.078	0.32	0.078	0.21	0.078	1.9	0.078		

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Table 1.1b (cont) Results of the Analysis for VOC ($\mu\text{g}/\text{m}^3$) in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA TO-15

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Laboratory Sample Number	14F1292-47	14F1292-48	
Sample Number	239-0614-0035	239-0614-0036	
Sample Location	Unit 023	Unit 024	
Sublocation	Crawl Space	Crawl Space	
Analyte	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$
Acetone	56	5.5	42
Benzene	0.26	0.058	0.52
Bromoform	U	0.19	U
Bromomethane	U	0.14	U
1,3-Butadiene	U	0.040	U
2-Butanone (MEK)	11	4.1	7.7
Carbon Tetrachloride	0.47	0.11	0.62
Chlorobenzene	U	0.083	U
Chloroethane	0.083	0.047	0.083
Chloroform	0.99	0.088	1.3
Chloromethane	0.65	0.14	1.3
Cyclohexane	U	0.12	2.2
Dibromochloromethane	U	0.15	U
1,2-Dibromoethane (EDB)	U	0.14	U
1,2-Dichlorobenzene	U	0.11	U
1,3-Dichlorobenzene	0.16	0.11	U
1,4-Dichlorobenzene	4.9	0.11	U
Dichlorodifluoromethane (Freon 12)	2.3	0.089	2.3
1,1-Dichloroethane	U	0.073	U
1,2-Dichloroethane	0.33	0.073	0.70
1,1-Dichloroethylene	U	0.071	U
cis-1,2-Dichloroethylene	U	0.071	U
trans-1,2-Dichloroethylene	U	0.071	U
1,2-Dichloropropane	U	0.083	U
cis-1,3-Dichloropropene	U	0.082	U
trans-1,3-Dichloropropene	U	0.082	U
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.13	0.13	0.12
1,4-Dioxane	U	1.3	U
Ethyl Acetate	0.83	0.13	2.6
Ethylbenzene	0.37	0.078	0.78
4-Ethyltoluene	0.10	0.088	0.10
Heptane	0.65	0.074	0.92
Hexane	U	16	12 J
2-Hexanone (MBK)	2.4 J	0.074	0.62 J
Isopropanol	27	3.4	12
Methyl tert-Butyl Ether (MTBE)	U	0.13	U
Methylene Chloride	1.7	1.2	U
4-Methyl-2-pentanone (MIBK)	1.3	0.074	0.77
Propene	U	2.4	U
Styrene	0.38	0.077	0.73
1,1,2,2-Tetrachloroethane	U J	0.12	U J
Tetrachloroethylene	0.74	0.12	0.64
Tetrahydrofuran	0.35	0.053	0.46
Toluene	3.5	0.068	5.2
1,1,1-Trichloroethane	U	0.098	4.2
1,1,2-Trichloroethane	U	0.098	U
Trichloroethylene	0.14	0.097	U
Trichlorofluoromethane (Freon 11)	1.6	0.10	1.8
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.67 J	0.20	0.66
1,2,4-Trimethylbenzene	0.32	0.088	0.42
1,3,5-Trimethylbenzene	0.10	0.088	0.13
Vinyl Acetate	U J	2.5	U J
Vinyl Chloride	U	0.046	U
m&p-Xylene	1.2	0.30	2.5
o-Xylene	0.36	0.078	0.78

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Table 1.2 Results of the Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

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Laboratory Sample Number	B100146-BLK1	14F1292-05	14F1292-06
Sample Number	6/30/2014	239-0614-0005	239-0614-0006
Sample Location	Method Blank	Unit 005	Unit 005
Sublocation		Crawl Space	Ambient
Analyte	Result ppmv	RL ppmv	Result ppmv
Carbon Dioxide	U 10	470 10	340 10
Methane	U 8.0	U 8.0	U 8.0

Table 1.2 (cont) Results of the Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number	B100147-BLK1	14F1292-01	14F1292-02	14F1292-03
Sample Number	7/1/2014	239-0614-0001	239-0614-0002	239-0614-0003
Sample Location	Method Blank	Unit 001	Unit 002	Unit 003
Sublocation		Crawl Space	Crawl Space	Crawl Space
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Carbon Dioxide	U 10	300 10	360 J 10	400 10
Methane	U 8.0	U 8.0	U 8.0	14 8.0

Table 1.2 (cont) Results of the Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number	14F1292-04	14F1292-07	14F1292-08	14F1292-09
Sample Number	239-0614-0004	239-0614-0007	239-0614-0008	239-0614-0009
Sample Location	Unit 004	Unit 006	Unit 007	Unit 008
Sublocation	Crawl Space	Crawl Space	Crawl Space	Crawl Space
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Carbon Dioxide	350 10	420 10	570 10	500 10
Methane	U 8.0	U 8.0	U 8.0	U 8.0

Table 1.2 (cont) Results of the Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number	14F1292-10	14F1292-11	14F1292-12	14F1292-14
Sample Number	239-0614-0010	239-0614-0011	239-0614-0012	239-0614-0014
Sample Location	Unit 007	Unit 009	Unit 010	Unit 011
Sublocation	Ambient	Ambient	Crawl Space	Ambient
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Carbon Dioxide	320 10	350 10	380 20	320 10
Methane	U 8.0	U 8.0	U 16	U 8.0

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Table 1.2 (cont) Results of the Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

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Laboratory Sample Number	14F1292-15	14F1292-16		
Sample Number	239-0614-0015	239-0614-0016		
Sample Location	Unit 012	Unit 012		
Sublocation	Crawl Space	CS-Co		
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Carbon Dioxide	370	10	400	10
Methane	U	8.0	U	8.0

Table 1.2 (cont) Results of the Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number	B100148-BLK1	14F1292-17	14F1292-18	14F1292-19
Sample Number	7/2/2014	239-0614-0017	239-0614-0018	239-0614-0019
Sample Location	Method Blank	Unit 012	Unit 013	Unit 013
Sublocation	Ambient	Crawl Space	Ambient	Ambient
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Carbon Dioxide	U	10	330	10
Methane	U	8.0	U	8.0

Table 1.2 (cont) Results of the Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number	14F1292-20	14F1292-21	14F1292-22	14F1292-23
Sample Number	239-0614-0020	239-0614-0021	239-0614-0022	239-0614-0023
Sample Location	Unit 014	Unit 014	Unit 002	Unit 003
Sublocation	Crawl Space	Ambient	Ambient	Ambient
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Carbon Dioxide	670	10	340	10
Methane	U	8.0	U	8.0

Table 1.2 (cont) Results of the Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number	14F1292-24	14F1292-25	14F1292-26
Sample Number	239-0614-0024	239-0614-0029	239-0614-0030
Sample Location	Unit 015	Unit 018	Unit 019
Sublocation	Crawl Space	CS-Co	Crawl Space
Analyte	Result ppmv	RL ppmv	Result ppmv
Carbon Dioxide	550	10	460
Methane	U	8.0	U

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Table 1.2 (cont) Results of the Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

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Laboratory Sample Number	B100150-BLK1	14F1292-13	14F1292-27	14F1292-28
Sample Number	7/7/2014	239-0614-0013	239-0614-0031	239-0614-0032
Sample Location	Method Blank	Unit 011	Unit 020	Unit 021
Sublocation		SS	Crawl Space	Crawl Space
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Carbon Dioxide	U 10		18000 J 20	390 10
Methane	U 8.0		U 16	U 8.0
				580 10
				U 8.0

Table 1.2 (cont) Results of the Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number	14F1292-29	14F1292-30	14F1292-31	14F1292-32
Sample Number	239-0614-0037	239-0614-0038	239-0614-0039	239-0614-0040
Sample Location	Unit 024	Unit 025	Unit 026	Unit 027
Sublocation	Ambient	Crawl Space	Crawl Space	SS
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Carbon Dioxide	350 J 10		310 10	310 J 10
Methane	U 8.0		U 8.0	U 8.0
				1700 J 10
				U 8.0

Table 1.2 (cont) Results of the Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number	B100152-BLK1	14F1292-33	14F1292-34	14F1292-35
Sample Number	7/8/2014	239-0614-0041	239-0614-0042	239-0614-0043
Sample Location	Method Blank	Unit 028	Unit 029	Unit 030
Sublocation		Crawl Space	Crawl Space	Crawl Space
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Carbon Dioxide	U 10		430 10	400 10
Methane	U 8.0		U 8.0	U 8.0
				410 10
				U 8.0

Table 1.2 (cont) Results of the Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number	14F1292-36	14F1292-37	14F1292-38	14F1292-39
Sample Number	239-0614-0044	239-0614-0045	239-0614-0046	239-0614-0047
Sample Location	Unit 031	Unit 031	Unit 032	Unit 032
Sublocation	Crawl Space	Ambient	SS	Ambient
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Carbon Dioxide	370 10		640 10	37000 20
Methane	U 8.0		U 8.0	U 16
				380 10
				U 8.0

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Table 1.2 (cont) Results of the Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

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Laboratory Sample Number 14F1292-40
 Sample Number 239-0614-0048
 Sample Location Trip
 Sublocation

Analyte	Result ppmv	RL ppmv
Carbon Dioxide	27 J 10	
Methane	U 8.0	

Table 1.2 (cont) Results of the Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number B100153-BLK1
 Sample Number 7/9/2014
 Sample Location Method Blank
 Sublocation

14F1292-41
 239-0614-0025
 Unit 015
 Ambient

14F1292-42
 239-0614-0026
 Unit 016
 Crawl Space

14F1292-43
 239-0614-0027
 Unit 017
 Crawl Space

Analyte	Result ppmv	RL ppmv
Carbon Dioxide	U 10	330 10
Methane	U 8.0	U 8.0

Analyte	Result ppmv	RL ppmv
Carbon Dioxide	450 10	510 10
Methane	U 8.0	U 8.0

Table 1.2 (cont) Results of the Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number 14F1292-44
 Sample Number 239-0614-0028
 Sample Location Unit 018
 Sublocation Crawl Space

14F1292-45
 239-0614-0033
 Unit 021
 Ambient

14F1292-46
 239-0614-0034
 Unit 022
 Crawl Space

14F1292-47
 239-0614-0035
 Unit 023
 Crawl Space

Analyte	Result ppmv	RL ppmv
Carbon Dioxide	390 10	300 J 10
Methane	U 8.0	U 8.0

Analyte	Result ppmv	RL ppmv
Carbon Dioxide	540 10	510 10
Methane	U 8.0	U 8.0

Table 1.2 (cont) Results of the Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number 14F1292-48
 Sample Number 239-0614-0036
 Sample Location Unit 024
 Sublocation Crawl Space

Analyte	Result ppmv	RL ppmv
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Carbon Dioxide	460 10	
Methane	U 8.0	

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Table 1.3 Results of the Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C		Page 1 of 4							
Laboratory Sample Number	B100161-BLK1	14F1292-01		14F1292-02		14F1292-03			
Sample Number	7/14/2014	239-0614-0001		239-0614-0002		239-0614-0003			
Sample Location	Method Blank		Unit 001		Unit 002		Unit 003		
Sublocation		Crawl Space		Crawl Space		Crawl Space			
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv	
Carbon Monoxide	U 10		U 10		U 10		U 10		

Table 1.3 (cont) Results of the Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C									
Laboratory Sample Number	14F1292-04	14F1292-05		14F1292-06		14F1292-07			
Sample Number	239-0614-0004	239-0614-0005		239-0614-0006		239-0614-0007			
Sample Location	Unit 004		Unit 005		Unit 005		Unit 006		
Sublocation	Crawl Space		Crawl Space		Ambient		Crawl Space		
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv	
Carbon Monoxide	U 10		U 10		U 10		U 10		

Table 1.3 (cont) Results of the Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C									
Laboratory Sample Number	14F1292-08	14F1292-09		14F1292-10		14F1292-11			
Sample Number	239-0614-0008	239-0614-0009		239-0614-0010		239-0614-0011			
Sample Location	Unit 007		Unit 008		Unit 007		Unit 009		
Sublocation	Crawl Space		Crawl Space		Ambient		Ambient		
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv	
Carbon Monoxide	U 10		U 10		U 10		U 10		

Table 1.3 (cont) Results of the Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C									
Laboratory Sample Number	14F1292-12	14F1292-13		14F1292-14		14F1292-15			
Sample Number	239-0614-0012	239-0614-0013		239-0614-0014		239-0614-0015			
Sample Location	Unit 010		Unit 011		Unit 011		Unit 012		
Sublocation	Crawl Space		SS		Ambient		Crawl Space		
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv	
Carbon Monoxide	U 20		U 20		U 10		U 10		

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Table 1.3 (cont) Results of the Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

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Laboratory Sample Number	14F1292-16	14F1292-17	14F1292-18	14F1292-19
Sample Number	239-0614-0016	239-0614-0017	239-0614-0018	239-0614-0019
Sample Location	Unit 012	Unit 012	Unit 013	Unit 013
Sublocation	CS-Co	Ambient	Crawl Space	Ambient
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Carbon Monoxide	U 10		U 10	U 10

Table 1.3 (cont) Results of the Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number	14F1292-20
Sample Number	239-0614-0020
Sample Location	Unit 014
Sublocation	Crawl Space
Analyte	Result ppmv
Carbon Monoxide	U 10

Table 1.3 (cont) Results of the Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number	B100162-BLK1	14F1292-21	14F1292-22	14F1292-23
Sample Number	7/15/2014	239-0614-0021	239-0614-0022	239-0614-0023
Sample Location	Method Blank	Unit 014	Unit 002	Unit 003
Sublocation		Ambient	Ambient	Ambient
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Carbon Monoxide	U 10		U 10	U 10

Table 1.3 (cont) Results of the Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number	14F1292-24	14F1292-25	14F1292-26	14F1292-27
Sample Number	239-0614-0024	239-0614-0029	239-0614-0030	239-0614-0031
Sample Location	Unit 015	Unit 018	Unit 019	Unit 020
Sublocation	Crawl Space	CS-Co	Crawl Space	Crawl Space
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Carbon Monoxide	U 10		U 10	U 10

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Table 1.3 (cont) Results of the Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

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Laboratory Sample Number	14F1292-28	14F1292-29	14F1292-30	14F1292-31
Sample Number	239-0614-0032	239-0614-0037	239-0614-0038	239-0614-0039
Sample Location	Unit 021	Unit 024	Unit 026	Unit 026
Sublocation	Crawl Space	Ambient	Crawl Space	Crawl Space
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Carbon Monoxide	U 10	U 10	U 10	U 10

Table 1.3 (cont) Results of the Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number	14F1292-32	14F1292-33	14F1292-34	14F1292-35
Sample Number	239-0614-0040	239-0614-0041	239-0614-0042	239-0614-0043
Sample Location	Unit 027	Unit 028	Unit 029	Unit 030
Sublocation	SS	Crawl Space	Crawl Space	Crawl Space
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Carbon Monoxide	U 10	U 10	U 10	U 10

Table 1.3 (cont) Results of the Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number	14F1292-36
Sample Number	239-0614-0044
Sample Location	Unit 031
Sublocation	Crawl Space
Analyte	Result ppmv
Carbon Monoxide	U 10

Table 1.3 (cont) Results of the Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number	B100163-BLK1	14F1292-37	14F1292-38	14F1292-39
Sample Number	7/16/2014	239-0614-0045	239-0614-0046	239-0614-0047
Sample Location	Method Blank	Unit 031	Unit 032	Unit 032
Sublocation	Ambient	SS	SS	Ambient
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Carbon Monoxide	U 10	U 10	U 20	U 10

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Table 1.3 (cont) Results of the Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

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Laboratory Sample Number	14F1292-40	14F1292-41		14F1292-42		14F1292-43	
Sample Number	239-0614-0048	239-0614-0025		239-0614-0026		239-0614-0027	
Sample Location	Trip	Unit 015		Unit 016		Unit 017	
Sublocation		Ambient		Crawl Space		Crawl Space	
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv
Carbon Monoxide	U	10	U	10	U	10	U

Table 1.3 (cont) Results of the Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number	14F1292-44	14F1292-45		14F1292-46		14F1292-47	
Sample Number	239-0614-0028	239-0614-0033		239-0614-0034		239-0614-0035	
Sample Location	Unit 018	Unit 021		Unit 022		Unit 023	
Sublocation	Crawl Space	Ambient		Crawl Space		Crawl Space	
Analyte	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv
Carbon Monoxide	U	10	U	10	U	10	U

Table 1.3 (cont) Results of the Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method EPA 3C

Laboratory Sample Number	14F1292-48	
Sample Number	239-0614-0036	
Sample Location	Unit 024	
Sublocation	Crawl Space	
Analyte	Result ppmv	RL ppmv
Carbon Monoxide	U	10

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Table 1.4 Results of the Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA 3C	Page 1 of 4							
Laboratory Sample Number	B100154-BLK1	14F1292-01		14F1292-02		14F1292-03			
Sample Number	7/10/2014	239-0614-0001		239-0614-0002		239-0614-0003			
Sample Location	Method Blank	Unit 001		Unit 002		Unit 003			
Sublocation		Crawl Space		Crawl Space		Crawl Space			
Analyte	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	
Nitrogen	U 0.78		74 16		77 16		76 16		
Oxygen	U 0.21		20 4.2		21 4.2		20 4.2		

Table 1.4 (cont) Results of the Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA 3C								
Laboratory Sample Number	14F1292-04	14F1292-05		14F1292-06		14F1292-07			
Sample Number	239-0614-0004	239-0614-0005		239-0614-0006		239-0614-0007			
Sample Location	Unit 004	Unit 005		Unit 005		Unit 006			
Sublocation	Crawl Space	Crawl Space		Ambient		Crawl Space			
Analyte	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	
Nitrogen	75 16		77 16		77 16		76 16		
Oxygen	20 4.2		20 4.2		20 4.2		20 4.2		

Table 1.4 (cont) Results of the Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA 3C								
Laboratory Sample Number	14F1292-08	14F1292-09		14F1292-10		14F1292-11			
Sample Number	239-0614-0008	239-0614-0009		239-0614-0010		239-0614-0011			
Sample Location	Unit 007	Unit 008		Unit 007		Unit 009			
Sublocation	Crawl Space	Crawl Space		Ambient		Ambient			
Analyte	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	
Nitrogen	76 16		77 16		77 16		78 16		
Oxygen	20 4.2		21 4.2		21 4.2		21 4.2		

Table 1.4 (cont) Results of the Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA 3C								
Laboratory Sample Number	14F1292-12	14F1292-13		14F1292-14		14F1292-15			
Sample Number	239-0614-0012	239-0614-0013		239-0614-0014		239-0614-0015			
Sample Location	Unit 010	Unit 011		Unit 011		Ambient			
Sublocation	Crawl Space	SS		Ambient					
Analyte	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	
Nitrogen	76 16		77 16		80 16				
Oxygen	20 4.2		21 4.2		21 4.2				

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Table 1.4 (cont) Results of the Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA 3C	Page 2 of 4							
Laboratory Sample Number	B100159-BLK1	14F1292-15		14F1292-16		14F1292-17			
Sample Number	7/11/2014	239-0614-0015		239-0614-0016		239-0614-0017			
Sample Location	Method Blank	Unit 012		Unit 012		Unit 012			
Sublocation		Crawl Space		CS-Co		Ambient			
Analyte	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent
Nitrogen	U 0.78		76 16		77 16		76 16		
Oxygen	U 0.21		20 4.2		21 4.2		20 4.2		

Table 1.4 (cont) Results of the Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA 3C								
Laboratory Sample Number	14F1292-18	14F1292-19		14F1292-20		14F1292-21			
Sample Number	239-0614-0018	239-0614-0019		239-0614-0020		239-0614-0021			
Sample Location	Unit 013	Unit 013		Unit 014		Unit 014			
Sublocation	Crawl Space	Ambient		Crawl Space		Ambient			
Analyte	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent
Nitrogen	76 16		75 16		78 16		76 16		
Oxygen	20 4.2		20 4.2		22 4.2		20 4.2		

Table 1.4 (cont) Results of the Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA 3C								
Laboratory Sample Number	14F1292-22	14F1292-23		14F1292-24		14F1292-25			
Sample Number	239-0614-0022	239-0614-0023		239-0614-0024		239-0614-0029			
Sample Location	Unit 002	Unit 003		Unit 015		Unit 018			
Sublocation	Ambient	Ambient		Crawl Space		CS-Co			
Analyte	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent
Nitrogen	76 16		77 16		77 16		76 16		
Oxygen	20 4.2		21 4.2		20 4.2		21 4.2		

Table 1.4 (cont) Results of the Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA 3C								
Laboratory Sample Number	14F1292-26	14F1292-27		14F1292-28		14F1292-29			
Sample Number	239-0614-0030	239-0614-0031		239-0614-0032		239-0614-0037			
Sample Location	Unit 019	Unit 020		Unit 021		Unit 024			
Sublocation	Crawl Space	Crawl Space		Crawl Space		Ambient			
Analyte	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent
Nitrogen	77 16		74 16		75 16		76 16		
Oxygen	21 4.2		20 4.2		20 4.2		21 4.2		

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Table 1.4 (cont) Results of the Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA 3C	Page 3 of 4							
Laboratory Sample Number	B100160-BLK1	14F1292-30		14F1292-31		14F1292-32			
Sample Number	7/12/2014	239-0614-0038		239-0614-0039		239-0614-0040			
Sample Location	Method Blank	Unit 025		Unit 026		Unit 027			
Sublocation		Crawl Space		Crawl Space		SS			
Analyte	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	
Nitrogen	U 0.78		76 16		75 16		74 16		
Oxygen	U 0.21		21 4.2		20 4.2		21 4.2		

Table 1.4 (cont) Results of the Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA 3C								
Laboratory Sample Number	14F1292-33	14F1292-34		14F1292-35		14F1292-36			
Sample Number	239-0614-0041	239-0614-0042		239-0614-0043		239-0614-0044			
Sample Location	Unit 028	Unit 029		Unit 030		Unit 031			
Sublocation	Crawl Space	Crawl Space		Crawl Space		Crawl Space			
Analyte	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	
Nitrogen	75 16		76 16		75 75		75 16		
Oxygen	20 4.2		20 4.2		20 4.2		20 4.2		

Table 1.4 (cont) Results of the Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA 3C								
Laboratory Sample Number	14F1292-37	14F1292-38		14F1292-39		14F1292-40			
Sample Number	239-0614-0045	239-0614-0046		239-0614-0047		239-0614-0048			
Sample Location	Unit 031	Unit 032		Unit 032		Trip			
Sublocation	Ambient	SS		Ambient					
Analyte	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	
Nitrogen	74 16		73 16		76 16		1.2 78		
Oxygen	20 4.2		13 4.2		21 4.2		0.40 0.21		

Table 1.4 (cont) Results of the Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA 3C								
Laboratory Sample Number	14F1292-41	14F1292-42		14F1292-43		14F1292-44			
Sample Number	239-0614-0025	239-0614-0026		239-0614-0027		239-0614-0028			
Sample Location	Unit 015	Unit 016		Unit 017		Unit 018			
Sublocation	Ambient	Crawl Space		Crawl Space		Crawl Space			
Analyte	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	
Nitrogen	77 16		75 16		78 16		81 16		
Oxygen	22 4.2		22 4.2		22 4.2		22 4.2		

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Table 1.4 (cont) Results of the Analysis for Nitrogen and Oxygen in Air
WA # SERAS-239 Lee's Lane Landfill Site Investigation

Method	EPA 3C	Page 4 of 4								
Laboratory Sample Number	14F1292-45	14F1292-46		14F1292-47		14F1292-48				
Sample Number	239-0614-0033	239-0614-0034		239-0614-0035		239-0614-0036				
Sample Location	Unit 021		Unit 022		Unit 023		Unit 024			
Sublocation	Ambient		Crawl Space		Crawl Space		Crawl Space			
Analyte	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent	Result Percent	RL Percent		
Nitrogen	78	16	80	16	81	16	80	16		
Oxygen	21	4.2	22	4.2	21	4.2	21 J	4.2		

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Table 2.1 Results of the LCS Analysis for VOC in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Sample ID: LCS 06/29/14

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Analyte	LCS Spike Added ppbv	LCS Spike Recovered ppbv	% Recovery	QC Limits % Recovery
Acetone	5.00	6.99	140	*
Benzene	5.00	3.69	74	70-130
Bromofom	5.00	4.02	80	70-130
Bromomethane	5.00	4.98	100	70-130
1,3-Butadiene	5.00	5.60	112	70-130
2-Butanone (MEK)	5.00	5.04	101	70-130
Carbon Tetrachloride	5.00	3.72	74	70-130
Chlorobenzene	5.00	4.19	84	70-130
Chloroethane	5.00	5.74	115	70-130
Chloroform	5.00	4.26	85	70-130
Chloromethane	5.00	4.61	92	70-130
Cyclohexane	5.00	3.88	78	70-130
Dibromochloromethane	5.00	3.97	79	70-130
1,2-Dibromoethane (EDB)	5.00	3.63	73	70-130
1,2-Dichlorobenzene	5.00	4.16	83	70-130
1,3-Dichlorobenzene	5.00	4.19	84	70-130
1,4-Dichlorobenzene	5.00	4.11	82	70-130
Dichlorodifluoromethane (Freon 12)	5.00	4.14	83	70-130
1,1-Dichloroethane	5.00	4.27	85	70-130
1,2-Dichloroethane	5.00	4.07	81	70-130
1,1-Dichloroethylene	5.00	5.04	101	70-130
cis-1,2-Dichloroethylene	5.00	4.27	85	70-130
trans-1,2-Dichloroethylene	5.00	4.33	87	70-130
1,2-Dichloropropane	5.00	3.37	67	*
cis-1,3-Dichloropropene	5.00	4.23	85	70-130
trans-1,3-Dichloropropene	5.00	4.18	84	70-130
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.00	4.36	87	70-130
1,4-Dioxane	5.00	3.94	79	70-130
Ethyl Acetate	5.00	5.24	105	70-130
Ethylbenzene	5.00	4.40	88	70-130
4-Ethyltoluene	5.00	4.58	92	70-130
Heptane	5.00	3.99	80	70-130
Hexane	5.00	3.93	79	70-130
2-Hexanone (MBK)	5.00	2.85	57	*
Isopropanol	5.00	5.28	106	70-130
Methyl tert-Butyl Ether (MTBE)	5.00	5.26	105	70-130
Methylene Chloride	5.00	4.04	81	70-130
4-Methyl-2-pentanone (MIBK)	5.00	3.54	71	70-130
Propene	5.00	4.12	82	70-130
Styrene	5.00	4.31	86	70-130
1,1,2,2-Tetrachloroethane	5.00	2.70	54	*
Tetrachloroethylene	5.00	4.22	84	70-130
Tetrahydrofuran	5.00	5.17	103	70-130
Toluene	5.00	4.27	85	70-130
1,1,1-Trichloroethane	5.00	3.72	75	70-130
1,1,2-Trichloroethane	5.00	3.25	65	*
Trichloroethylene	5.00	4.60	92	70-130
Trichlorofluoromethane (Freon 11)	5.00	5.02	100	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.00	4.84	97	70-130
1,2,4-Trimethylbenzene	5.00	4.26	85	70-130
1,3,5-Trimethylbenzene	5.00	4.36	87	70-130
Vinyl Acetate	5.00	1.79	36	*
Vinyl Chloride	5.00	5.45	109	70-130
m&p-Xylene	10.0	8.89	89	70-130
o-Xylene	5.00	4.13	83	70-130

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Table 2.1 (cont) Results of the LCS Analysis for VOC in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Sample ID: LCS 07/01/14

Page 2 of 4

Analyte	LCS Spike Added ppbv	LCS Spike Recovered ppbv	% Recovery	QC Limits % Recovery
Acetone	5.00	6.61	132	*
Benzene	5.00	4.33	87	70-130
Bromoform	5.00	4.64	93	70-130
Bromomethane	5.00	5.17	103	70-130
1,3-Butadiene	5.00	5.28	106	70-130
2-Butanone (MEK)	5.00	5.36	107	70-130
Carbon Tetrachloride	5.00	4.43	89	70-130
Chlorobenzene	5.00	4.62	92	70-130
Chloroethane	5.00	5.28	106	70-130
Chloroform	5.00	4.55	91	70-130
Chloromethane	5.00	4.59	92	70-130
Cyclohexane	5.00	4.51	90	70-130
Dibromochloromethane	5.00	4.51	90	70-130
1,2-Dibromoethane (EDB)	5.00	4.19	84	70-130
1,2-Dichlorobenzene	5.00	4.62	92	70-130
1,3-Dichlorobenzene	5.00	4.68	94	70-130
1,4-Dichlorobenzene	5.00	4.59	92	70-130
Dichlorodifluoromethane (Freon 12)	5.00	4.43	89	70-130
1,1-Dichloroethane	5.00	4.58	92	70-130
1,2-Dichloroethane	5.00	4.42	88	70-130
1,1-Dichloroethylene	5.00	5.08	102	70-130
cis-1,2-Dichloroethylene	5.00	4.54	91	70-130
trans-1,2-Dichloroethylene	5.00	4.60	92	70-130
1,2-Dichloropropane	5.00	4.03	81	70-130
cis-1,3-Dichloropropene	5.00	4.85	97	70-130
trans-1,3-Dichloropropene	5.00	4.84	97	70-130
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.00	4.54	91	70-130
1,4-Dioxane	5.00	4.72	94	70-130
Ethyl Acetate	5.00	5.52	110	70-130
Ethylbenzene	5.00	4.85	97	70-130
4-Ethyltoluene	5.00	5.03	101	70-130
Heptane	5.00	4.59	92	70-130
Hexane	5.00	4.28	86	70-130
2-Hexanone (MBK)	5.00	3.26	65	*
Isopropanol	5.00	4.90	98	70-130
Methyl tert-Butyl Ether (MTBE)	5.00	5.19	104	70-130
Methylene Chloride	5.00	4.64	93	70-130
4-Methyl-2-pentanone (MIBK)	5.00	4.20	84	70-130
Propene	5.00	4.51	90	70-130
Styrene	5.00	4.70	94	70-130
1,1,2,2-Tetrachloroethane	5.00	3.57	71	70-130
Tetrachloroethylene	5.00	4.46	89	70-130
Tetrahydrofuran	5.00	5.21	104	70-130
Toluene	5.00	4.70	94	70-130
1,1,1-Trichloroethane	5.00	4.33	87	70-130
1,1,2-Trichloroethane	5.00	3.83	77	70-130
Trichloroethylene	5.00	4.93	99	70-130
Trichlorofluoromethane (Freon 11)	5.00	5.65	113	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.00	5.07	101	70-130
1,2,4-Trimethylbenzene	5.00	4.72	94	70-130
1,3,5-Trimethylbenzene	5.00	4.83	97	70-130
Vinyl Acetate	5.00	2.22	44	*
Vinyl Chloride	5.00	5.28	106	70-130
m&p-Xylene	10.0	10.0	100	70-130
o-Xylene	5.00	4.73	95	70-130

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Table 2.1 (cont) Results of the LCS Analysis for VOC in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: LCS 07/02/14

Analyte	LCS Spike Added ppbv	LCS Spike Recovered ppbv	% Recovery	QC Limits % Recovery
Acetone	5.00	6.44	129	70-130
Benzene	5.00	3.80	76	70-130
Bromoform	5.00	4.32	86	70-130
Bromomethane	5.00	4.91	98	70-130
1,3-Butadiene	5.00	5.18	104	70-130
2-Butanone (MEK)	5.00	4.87	97	70-130
Carbon Tetrachloride	5.00	3.78	76	70-130
Chlorobenzene	5.00	4.31	86	70-130
Chloroethane	5.00	5.25	105	70-130
Chloroform	5.00	4.11	82	70-130
Chloromethane	5.00	4.34	87	70-130
Cyclohexane	5.00	4.02	81	70-130
Dibromochloromethane	5.00	4.29	86	70-130
1,2-Dibromoethane (EDB)	5.00	4.05	81	70-130
1,2-Dichlorobenzene	5.00	4.21	84	70-130
1,3-Dichlorobenzene	5.00	4.22	84	70-130
1,4-Dichlorobenzene	5.00	4.13	83	70-130
Dichlorodifluoromethane (Freon 12)	5.00	3.93	79	70-130
1,1-Dichloroethane	5.00	4.15	83	70-130
1,2-Dichloroethane	5.00	3.81	76	70-130
1,1-Dichloroethylene	5.00	4.49	90	70-130
cis-1,2-Dichloroethylene	5.00	4.06	81	70-130
trans-1,2-Dichloroethylene	5.00	4.15	83	70-130
1,2-Dichloropropane	5.00	3.56	71	70-130
cis-1,3-Dichloropropene	5.00	4.35	87	70-130
trans-1,3-Dichloropropene	5.00	4.23	85	70-130
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.00	4.23	85	70-130
1,4-Dioxane	5.00	4.12	83	70-130
Ethyl Acetate	5.00	5.33	107	70-130
Ethylbenzene	5.00	4.60	92	70-130
4-Ethyltoluene	5.00	4.72	94	70-130
Heptane	5.00	4.17	83	70-130
Hexane	5.00	3.92	78	70-130
2-Hexanone (MBK)	5.00	3.03	61	*
Isopropanol	5.00	4.76	95	70-130
Methyl tert-Butyl Ether (MTBE)	5.00	4.66	93	70-130
Methylene Chloride	5.00	4.27	85	70-130
4-Methyl-2-pentanone (MIBK)	5.00	3.65	73	70-130
Propene	5.00	4.18	84	70-130
Styrene	5.00	4.40	88	70-130
1,1,2,2-Tetrachloroethane	5.00	3.22	64	*
Tetrachloroethylene	5.00	4.06	81	70-130
Tetrahydrofuran	5.00	4.94	99	70-130
Toluene	5.00	4.51	90	70-130
1,1,1-Trichloroethane	5.00	3.70	74	70-130
1,1,2-Trichloroethane	5.00	3.78	76	70-130
Trichloroethylene	5.00	4.47	89	70-130
Trichlorofluoromethane (Freon 11)	5.00	5.05	101	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.00	4.59	92	70-130
1,2,4-Trimethylbenzene	5.00	4.40	88	70-130
1,3,5-Trimethylbenzene	5.00	4.48	90	70-130
Vinyl Acetate	5.00	2.32	46	*
Vinyl Chloride	5.00	5.10	102	70-130
m&p-Xylene	10.0	9.35	94	70-130
o-Xylene	5.00	4.39	88	70-130

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Table 2.1 (cont) Results of the LCS Analysis for VOC in Air
WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: LCS 07/14/14

Analyte	LCS Spike Added ppbv	LCS Spike Recovered ppbv	% Recovery	QC Limits % Recovery
Acetone	5.00	5.88	118	70-130
Isopropanol	5.00	5.98	120	70-130

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Table 2.2 Results of the Duplicate Analysis for VOC in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Sample ID: 239-0614-0012

Page 1 of 4

Analyte	Initial Analysis ppbv	Duplicate Analysis ppbv	RPD	QC Limits RPD
Acetone	19	17	11	≤ 25
Benzene	0.054	0.055	2	≤ 25
Bromoform	U	U	NC	≤ 25
Bromomethane	U	U	NC	≤ 25
1,3-Butadiene	U	U	NC	≤ 25
2-Butanone (MEK)	2.5	2.5	0	≤ 25
Carbon Tetrachloride	0.067	0.067	0	≤ 25
Chlorobenzene	U	U	NC	≤ 25
Chloroethane	U	U	NC	≤ 25
Chloroform	0.048	0.046	4	≤ 25
Chloromethane	0.048	0.48	4	≤ 25
Cyclohexane	U	U	NC	≤ 25
Dibromochloromethane	U	U	NC	≤ 25
1,2-Dibromoethane (EDB)	U	U	NC	≤ 25
1,2-Dichlorobenzene	U	U	NC	≤ 25
1,3-Dichlorobenzene	U	U	NC	≤ 25
1,4-Dichlorobenzene	U	U	NC	≤ 25
Dichlorodifluoromethane (Freon 12)	0.41	0.41	0	≤ 25
1,1-Dichloroethane	U	U	NC	≤ 25
1,2-Dichloroethane	0.018	0.018	0	≤ 25
1,1-Dichloroethylene	U	U	NC	≤ 25
cis-1,2-Dichloroethylene	U	U	NC	≤ 25
trans-1,2-Dichloroethylene	U	U	NC	≤ 25
1,2-Dichloropropane	U	U	NC	≤ 25
cis-1,3-Dichloropropene	U	U	NC	≤ 25
trans-1,3-Dichloropropene	U	U	NC	≤ 25
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.017	0.015	6	≤ 25
1,4-Dioxane	U	U	NC	≤ 25
Ethyl Acetate	0.15	0.15	0	≤ 25
Ethylbenzene	0.020	0.020	0	≤ 25
4-Ethyltoluene	U	U	NC	≤ 25
Heptane	0.046	0.041	12	≤ 25
Hexane	U	U	NC	≤ 25
2-Hexanone (MBK)	0.29	0.30	1	≤ 25
Isopropanol	7.6	5.9	25	≤ 25
Methyl tert-Butyl Ether (MTBE)	U	U	NC	≤ 25
Methylene Chloride	U	U	NC	≤ 25
4-Methyl-2-pentanone (MIBK)	0.20	0.19	5	≤ 25
Propene	U	U	NC	≤ 25
Styrene	0.041	0.041	0	≤ 25
1,1,2,2-Tetrachloroethane	U	U	NC	≤ 25
Tetrachloroethylene	0.032	0.033	3	≤ 25
Tetrahydrofuran	0.095	0.089	7	≤ 25
Toluene	0.17	0.17	0	≤ 25
1,1,1-Trichloroethane	U	U	NC	≤ 25
1,1,2-Trichloroethane	U	U	NC	≤ 25
Trichloroethylene	U	U	NC	≤ 25
Trichlorofluoromethane (Freon 11)	0.24	0.24	0	≤ 25
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.074	0.073	1	≤ 25
1,2,4-Trimethylbenzene	0.019	0.020	5	≤ 25
1,3,5-Trimethylbenzene	U	U	NC	≤ 25
Vinyl Acetate	U	U	NC	≤ 25
Vinyl Chloride	U	U	NC	≤ 25
m&p-Xylene	U	U	NC	≤ 25
o-Xylene	0.024	0.023	4	≤ 25

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Table 2.2 (cont) Results of the Duplicate Analysis for VOC in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Sample ID: 239-0614-0039

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Analyte	Initial Analysis ppbv	Duplicate Analysis ppbv	RPD	QC Limits RPD
Acetone	11	12	9	≤ 25
Benzene	0.064	0.067	5	≤ 25
Bromoform	U	U	NC	≤ 25
Bromomethane	U	U	NC	≤ 25
1,3-Butadiene	U	U	NC	≤ 25
2-Butanone (MEK)	U	U	NC	≤ 25
Carbon Tetrachloride	0.069	0.074	7	≤ 25
Chlorobenzene	U	U	NC	≤ 25
Chloroethane	U	U	NC	≤ 25
Chloroform	0.056	0.062	10	≤ 25
Chloromethane	0.38	0.38	0	≤ 25
Cyclohexane	U	U	NC	≤ 25
Dibromochloromethane	U	U	NC	≤ 25
1,2-Dibromoethane (EDB)	U	U	NC	≤ 25
1,2-Dichlorobenzene	U	U	NC	≤ 25
1,3-Dichlorobenzene	U	U	NC	≤ 25
1,4-Dichlorobenzene	U	U	NC	≤ 25
Dichlorodifluoromethane (Freon 12)	0.43	0.44	2	≤ 25
1,1-Dichloroethane	U	U	NC	≤ 25
1,2-Dichloroethane	U	U	NC	≤ 25
1,1-Dichloroethylene	U	U	NC	≤ 25
cis-1,2-Dichloroethylene	U	U	NC	≤ 25
trans-1,2-Dichloroethylene	U	U	NC	≤ 25
1,2-Dichloropropane	U	U	NC	≤ 25
cis-1,3-Dichloropropene	U	U	NC	≤ 25
trans-1,3-Dichloropropene	U	U	NC	≤ 25
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	U	U	NC	≤ 25
1,4-Dioxane	U	U	NC	≤ 25
Ethyl Acetate	U	U	NC	≤ 25
Ethylbenzene	0.041	0.047	14	≤ 25
4-Ethyltoluene	U	U	NC	≤ 25
Heptane	0.042	0.046	9	≤ 25
Hexane	U	U	NC	≤ 25
2-Hexanone (MBK)	0.12	0.12	0	≤ 25
Isopropanol	3.8	3.7	3	≤ 25
Methyl tert-Butyl Ether (MTBE)	U	U	NC	≤ 25
Methylene Chloride	U	U	NC	≤ 25
4-Methyl-2-pentanone (MIBK)	0.17	0.18	6	≤ 25
Propene	U	U	NC	≤ 25
Styrene	0.027	0.029	7	≤ 25
1,1,2,2-Tetrachloroethane	U	U	NC	≤ 25
Tetrachloroethylene	0.050	0.054	8	≤ 25
Tetrahydrofuran	0.11	0.11	0	≤ 25
Toluene	0.27	0.28	4	≤ 25
1,1,1-Trichloroethane	U	U	NC	≤ 25
1,1,2-Trichloroethane	U	U	NC	≤ 25
Trichloroethylene	U	U	NC	≤ 25
Trichlorofluoromethane (Freon 11)	0.25	0.26	4	≤ 25
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.077	0.078	1	≤ 25
1,2,4-Trimethylbenzene	0.030	0.033	10	≤ 25
1,3,5-Trimethylbenzene	U	U	NC	≤ 25
Vinyl Acetate	U	U	NC	≤ 25
Vinyl Chloride	U	U	NC	≤ 25
m&p-Xylene	0.16	0.17	6	≤ 25
o-Xylene	0.064	0.066	3	≤ 25

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Table 2.2 (cont) Results of the Duplicate Analysis for VOC in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Sample ID: 239-0614-0046

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Analyte	Initial Analysis ppbv	Duplicate Analysis ppbv	RPD	QC Limits RPD
Acetone	56	59	5	≤ 25
Benzene	0.43	0.44	2	≤ 25
Bromoform	U	U	NC	≤ 25
Bromomethane	U	U	NC	≤ 25
1,3-Butadiene	U	U	NC	≤ 25
2-Butanone (MEK)	5.7	5.8	2	≤ 25
Carbon Tetrachloride	0.031	0.031	0	≤ 25
Chlorobenzene	0.044	0.046	4	≤ 25
Chloroethane	U	U	NC	≤ 25
Chloroform	1.3	1.4	7	≤ 25
Chloromethane	0.18	0.17	6	≤ 25
Cyclohexane	0.25	0.26	4	≤ 25
Dibromochloromethane	U	U	NC	≤ 25
1,2-Dibromoethane (EDB)	U	U	NC	≤ 25
1,2-Dichlorobenzene	U	U	NC	≤ 25
1,3-Dichlorobenzene	U	U	NC	≤ 25
1,4-Dichlorobenzene	2.3	2.3	0	≤ 25
Dichlorodifluoromethane (Freon 12)	0.31	0.20	43	*
1,1-Dichloroethane	U	U	NC	≤ 25
1,2-Dichloroethane	U	U	NC	≤ 25
1,1-Dichloroethylene	U	U	NC	≤ 25
cis-1,2-Dichloroethylene	U	U	NC	≤ 25
trans-1,2-Dichloroethylene	U	U	NC	≤ 25
1,2-Dichloropropane	U	U	NC	≤ 25
cis-1,3-Dichloropropene	U	U	NC	≤ 25
trans-1,3-Dichloropropene	U	U	NC	≤ 25
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.020	U	NC	≤ 25
1,4-Dioxane	U	U	NC	≤ 25
Ethyl Acetate	0.20	0.20	0	≤ 25
Ethylbenzene	0.34	0.34	0	≤ 25
4-Ethyltoluene	0.088	0.088	0	≤ 25
Heptane	0.52	0.52	0	≤ 25
Hexane	U	U	NC	≤ 25
2-Hexanone (MBK)	0.51	0.49	4	≤ 25
Isopropanol	2.7	2.0	30	*
Methyl tert-Butyl Ether (MTBE)	U	U	NC	≤ 25
Methylene Chloride	U	U	NC	≤ 25
4-Methyl-2-pentanone (MIBK)	0.51	0.52	2	≤ 25
Propene	2	1.9	5	≤ 25
Styrene	0.11	0.11	0	≤ 25
1,1,2,2-Tetrachloroethane	U	U	NC	≤ 25
Tetrachloroethylene	0.43	0.45	5	≤ 25
Tetrahydrofuran	0.14	0.14	0	≤ 25
Toluene	1.3	1.3	0	≤ 25
1,1,1-Trichloroethane	0.050	0.051	2	≤ 25
1,1,2-Trichloroethane	U	U	NC	≤ 25
Trichloroethylene	H	U	NC	≤ 25
Trichlorofluoromethane (Freon 11)	0.33	0.34	3	≤ 25
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.091	0.093	2	≤ 25
1,2,4-Trimethylbenzene	0.6	0.59	2	≤ 25
1,3,5-Trimethylbenzene	0.15	0.15	0	≤ 25
Vinyl Acetate	U	U	NC	≤ 25
Vinyl Chloride	U	U	NC	≤ 25
m&p-Xylene	0.79	0.81	3	≤ 25
o-Xylene	0.43	0.42	2	≤ 25

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Table 2.2 (cont) Results of the Duplicate Analysis for VOC in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

Sample ID: 239-0614-0036

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Analyte	Initial Analysis ppbv	Duplicate Analysis ppbv	RPD	QC Limits RPD
Acetone	18	17	6	≤ 25
Benzene	0.16	0.16	1	≤ 25
Bromoform	U	U	NC	≤ 25
Bromomethane	U	U	NC	≤ 25
1,3-Butadiene	U	U	NC	≤ 25
2-Butanone (MEK)	2.6	2.6	0	≤ 25
Carbon Tetrachloride	0.098	0.099	1	≤ 25
Chlorobenzene	U	U	NC	≤ 25
Chloroethane	0.032	0.03	6	≤ 25
Chloroform	0.26	0.26	0	≤ 25
Chloromethane	0.65	0.61	6	≤ 25
Cyclohexane	0.64	0.63	2	≤ 25
Dibromochloromethane	U	U	NC	≤ 25
1,2-Dibromoethane (EDB)	U	U	NC	≤ 25
1,2-Dichlorobenzene	U	U	NC	≤ 25
1,3-Dichlorobenzene	U	U	NC	≤ 25
1,4-Dichlorobenzene	U	U	NC	≤ 25
Dichlorodifluoromethane (Freon 12)	0.47	0.46	2	≤ 25
1,1-Dichloroethane	U	U	NC	≤ 25
1,2-Dichloroethane	0.17	0.17	0	≤ 25
1,1-Dichloroethylene	U	U	NC	≤ 25
cis-1,2-Dichloroethylene	U	U	NC	≤ 25
trans-1,2-Dichloroethylene	U	U	NC	≤ 25
1,2-Dichloropropane	U	U	NC	≤ 25
cis-1,3-Dichloropropene	U	U	NC	≤ 25
trans-1,3-Dichloropropene	U	U	NC	≤ 25
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.018	0.018	0	≤ 25
1,4-Dioxane	U	U	NC	≤ 25
Ethyl Acetate	0.73	0.73	0	≤ 25
Ethylbenzene	0.18	0.18	0	≤ 25
4-Ethyltoluene	0.021	0.018	15	≤ 25
Heptane	0.23	0.22	4	≤ 25
Hexane	3.4	3.4	0	≤ 25
2-Hexanone (MBK)	0.15	0.16	6	≤ 25
Isopropanol	5	4.7	6	≤ 25
Methyl tert-Butyl Ether (MTBE)	U	U	NC	≤ 25
Methylene Chloride	U	U	NC	≤ 25
4-Methyl-2-pentanone (MIBK)	0.19	0.16	17	≤ 25
Propene	U	U	NC	≤ 25
Styrene	0.17	0.18	6	≤ 25
1,1,2,2-Tetrachloroethane	U	U	NC	≤ 25
Tetrachloroethylene	0.095	0.097	2	≤ 25
Tetrahydrofuran	0.16	0.15	6	≤ 25
Toluene	1.4	1.3	7	≤ 25
1,1,1-Trichloroethane	0.77	0.75	3	≤ 25
1,1,2-Trichloroethane	U	U	NC	≤ 25
Trichloroethylene	U	0.02	NC	≤ 25
Trichlorofluoromethane (Freon 11)	0.31	0.32	3	≤ 25
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.086	0.083	4	≤ 25
1,2,4-Trimethylbenzene	0.086	0.086	0	≤ 25
1,3,5-Trimethylbenzene	0.026	0.027	4	≤ 25
Vinyl Acetate	U	U	NC	≤ 25
Vinyl Chloride	U	U	NC	≤ 25
m&p-Xylene	0.59	0.57	3	≤ 25
o-Xylene	0.18	0.17	6	≤ 25

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Table 2.3 Results of the LCS Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: LCS 06/30/14

Analyte	LCS Spike Added ppmv	LCS Spike Recovered ppmv	% Recovery	QC Limits % Recovery
Carbon Dioxide	2000	1840	92	80-120
Methane	1600	1420	89	80-120

Sample ID: LCS 07/01/14

Analyte	LCS Spike Added ppmv	LCS Spike Recovered ppmv	% Recovery	QC Limits % Recovery
Carbon Dioxide	2000	1830	91	80-120
Methane	1600	1420	89	80-120

Sample ID: LCS 07/02/14

Analyte	LCS Spike Added ppmv	LCS Spike Recovered ppmv	% Recovery	QC Limits % Recovery
Carbon Dioxide	2000	1810	90	80-120
Methane	1600	1400	88	80-120

Sample ID: LCS 07/07/14

Analyte	LCS Spike Added ppmv	LCS Spike Recovered ppmv	% Recovery	QC Limits % Recovery
Carbon Dioxide	2000	1750	88	80-120
Methane	1600	1430	89	80-120

Sample ID: LCS 07/08/14

Analyte	LCS Spike Added ppmv	LCS Spike Recovered ppmv	% Recovery	QC Limits % Recovery
Carbon Dioxide	2000	1970	98	80-120
Methane	1600	1790	112	80-120

Sample ID: LCS 07/09/14

Analyte	LCS Spike Added ppmv	LCS Spike Recovered ppmv	% Recovery	QC Limits % Recovery
Carbon Dioxide	2000	1790	90	80-120
Methane	1600	1420	88	80-120

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Table 2.4 Results of the Duplicate Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0005

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	470	470	0.0698	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0006

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	340	350	3.31	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0001

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	300	330	8.31	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0002

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	360	440	22.1	*
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0003

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	400	420	4.98	≤ 10
Methane	14	15	3.01	≤ 10

Sample ID: 239-0614-0004

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	350	360	2.78	≤ 10
Methane	U	U	NC	≤ 10

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Table 2.4 (cont) Results of the Duplicate Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0007

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	420	420	0.58	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0008

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	570	570	1.42	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0009

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	500	500	0.175	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0010

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	320	320	0.974	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0011

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	350	340	4.03	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0012

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	380	400	5.10	≤ 10
Methane	U	U	NC	≤ 10

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Table 2.4 (cont) Results of the Duplicate Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0014

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	320	330	2.30	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0015

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	370	350	4.79	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0016

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	400	440	8.24	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0017

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	330	330	0.693	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0018

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	680	680	0.00	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0019

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	330	340	2.68	≤ 10
Methane	U	U	NC	≤ 10

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Table 2.4 (cont) Results of the Duplicate Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0020

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	670	690	2.24	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0021

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	340	360	3.51	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0022

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	270	290	9.1	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0023

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	330	330	0.171	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0024

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	550	540	2.22	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0029

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	500	500	1.15	≤ 10
Methane	U	U	NC	≤ 10

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Table 2.4 (cont) Results of the Duplicate Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0030

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	460	460	0.0819	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0013

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	18000	16000	11	* ≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0031

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	390	380	0.451	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0032

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	580	550	6.91	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0037

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	350	440	22.1	* ≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0038

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	310	300	2.55	≤ 10
Methane	U	U	NC	≤ 10

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Table 2.4 (cont) Results of the Duplicate Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0039

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	310	360	14.6	*
Methane	U	U	NC	≤ 10 ≤ 10

Sample ID: 239-0614-0040

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	1700	1900	11.8	*
Methane	U	U	NC	≤ 10 ≤ 10

Sample ID: 239-0614-0041

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	430	400	6.91	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0042

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	400	420	5.45	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0043

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	410	410	0.619	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0044

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	370	360	1.72	≤ 10
Methane	U	U	NC	≤ 10

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Table 2.4 (cont) Results of the Duplicate Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0045

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	640	680	7.00	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0046

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	37000	36000	5.00	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0047

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	380	410	6.53	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0048

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	27	19	36.3	*
Methane	U	U	NC	≤ 10 ≤ 10

Sample ID: 239-0614-0025

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	330	350	4.28	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0026

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	450	460	1.55	≤ 10
Methane	U	U	NC	≤ 10

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Table 2.4 (cont) Results of the Duplicate Analysis for CO₂ and Methane in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0027

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	510	520	0.620	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0028

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	390	390	0.165	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0033

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	300	260	13.7	*
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0034

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	540	550	2.04	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0035

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	510	540	4.32	≤ 10
Methane	U	U	NC	≤ 10

Sample ID: 239-0614-0036

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Dioxide	460	470	2.15	≤ 10
Methane	U	U	NC	≤ 10

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Table 2.5 Results of the LCS Analysis for CO in Air
WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: LCS 07/14/14

Analyte	LCS Spike Added ppmv	LCS Spike Recovered ppmv	% Recovery	QC Limits % Recovery
Carbon Monoxide	2000	1970	98	80-120

Sample ID: LCS 07/15/14

Analyte	LCS Spike Added ppmv	LCS Spike Recovered ppmv	% Recovery	QC Limits % Recovery
Carbon Monoxide	2000	2230	112	80-120

Sample ID: LCS 07/16/14

Analyte	LCS Spike Added ppmv	LCS Spike Recovered ppmv	% Recovery	QC Limits % Recovery
Carbon Monoxide	2000	2180	109	80-120

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Table 2.6 Results of the Duplicate Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0001

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0002

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0003

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0004

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0005

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0006

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0007

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

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Table 2.6 (cont) Results of the Duplicate Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0008

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0009

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0010

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0011

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0012

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0013

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0014

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

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Table 2.6 (cont) Results of the Duplicate Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0015

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0016

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0017

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0018

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0019

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0020

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0021

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

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Table 2.6 (cont) Results of the Duplicate Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0022

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0023

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0024

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0029

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0030

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0031

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0032

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

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Table 2.6 (cont) Results of the Duplicate Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0037

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0038

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0039

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0040

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0041

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0042

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0043

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

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Table 2.6 (cont) Results of the Duplicate Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0044

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0045

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0046

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0047

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0048

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0025

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0026

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

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Table 2.6 (cont) Results of the Duplicate Analysis for CO in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0027

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0028

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0033

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0034

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0035

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

Sample ID: 239-0614-0036

Analyte	Initial Analysis ppmv	Duplicate Analysis ppmv	RPD	QC Limits RPD
Carbon Monoxide	U	U	NC	≤ 10

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Table 2.7 Results of the LCS Analysis for Nitrogen and Oxygen in Air
WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: LCS 07/10/14

Analyte	LCS Spike Added Percent	LCS Spike Recovered Percent	% Recovery	QC Limits % Recovery
Nitrogen	3.95	3.69	93	0-200
Oxygen	1.05	1.02	97	0-200

Sample ID: LCS 07/11/14

Analyte	LCS Spike Added Percent	LCS Spike Recovered Percent	% Recovery	QC Limits % Recovery
Nitrogen	3.95	3.87	98	0-200
Oxygen	1.05	1.85	100	0-200

Sample ID: LCS 07/12/14

Analyte	LCS Spike Added Percent	LCS Spike Recovered Percent	% Recovery	QC Limits % Recovery
Nitrogen	3.95	3.74	95	0-200
Oxygen	1.05	1.03	98	0-200

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Table 2.8 Results of the Duplicate Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0001

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	74	74	0	≤ 10
Oxygen	20	20	2	≤ 10

Sample ID: 239-0614-0002

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	77	77	0	≤ 10
Oxygen	21	21	1	≤ 10

Sample ID: 239-0614-0003

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	76	75	1	≤ 10
Oxygen	20	20	2	≤ 10

Sample ID: 239-0614-0004

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	75	76	1	≤ 10
Oxygen	20	20	0	≤ 10

Sample ID: 239-0614-0005

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	77	78	1	≤ 10
Oxygen	20	21	3	≤ 10

Sample ID: 239-0614-0006

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	77	76	1	≤ 10
Oxygen	20	20	1	≤ 10

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Table 2.8 (cont) Results of the Duplicate Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0007

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	76	77	1	≤ 10
Oxygen	20	20	1	≤ 10

Sample ID: 239-0614-0008

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	76	75	1	≤ 10
Oxygen	20	20	2	≤ 10

Sample ID: 239-0614-0009

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	77	76	2	≤ 10
Oxygen	21	20	6	≤ 10

Sample ID: 239-0614-0010

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	77	77	1	≤ 10
Oxygen	21	21	0	≤ 10

Sample ID: 239-0614-0011

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	78	79	2	≤ 10
Oxygen	21	21	4	≤ 10

Sample ID: 239-0614-0012

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	76	77	1	≤ 10
Oxygen	20	21	1	≤ 10

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Table 2.8 (cont) Results of the Duplicate Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0013

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	77	78	2	≤ 10
Oxygen	21	21	2	≤ 10

Sample ID: 239-0614-0014

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	80	80	1	≤ 10
Oxygen	21	21	1	≤ 10

Sample ID: 239-0614-0015

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	76	76	1	≤ 10
Oxygen	20	20	1	≤ 10

Sample ID: 239-0614-0016

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	77	76	1	≤ 10
Oxygen	21	20	2	≤ 10

Sample ID: 239-0614-0017

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	76	76	0	≤ 10
Oxygen	20	20	1	≤ 10

Sample ID: 239-0614-0018

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	76	75	1	≤ 10
Oxygen	20	20	0	≤ 10

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Table 2.8 (cont) Results of the Duplicate Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0019

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	75	76	2	≤ 10
Oxygen	20	20	3	≤ 10

Sample ID: 239-0614-0020

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	78	76	3	≤ 10
Oxygen	22	20	9	≤ 10

Sample ID: 239-0614-0021

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	76	76	1	≤ 10
Oxygen	20	20	1	≤ 10

Sample ID: 239-0614-0022

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	76	77	1	≤ 10
Oxygen	20	20	1	≤ 10

Sample ID: 239-0614-0023

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	77	77	0	≤ 10
Oxygen	21	20	5	≤ 10

Sample ID: 239-0614-0024

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	77	76	0	≤ 10
Oxygen	20	20	1	≤ 10

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Table 2.8 (cont) Results of the Duplicate Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0029

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	76	77	1	≤ 10
Oxygen	21	20	2	≤ 10

Sample ID: 239-0614-0030

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	77	74	4	≤ 10
Oxygen	21	20	5	≤ 10

Sample ID: 239-0614-0031

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	74	78	5	≤ 10
Oxygen	20	21	4	≤ 10

Sample ID: 239-0614-0032

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	75	77	2	≤ 10
Oxygen	20	21	3	≤ 10

Sample ID: 239-0614-0037

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	76	77	1	≤ 10
Oxygen	21	21	1	≤ 10

Sample ID: 239-0614-0038

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	76	75	1	≤ 10
Oxygen	21	20	3	≤ 10

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Table 2.8 (cont) Results of the Duplicate Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0039

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	75	76	1	≤ 10
Oxygen	20	20	2	≤ 10

Sample ID: 239-0614-0040

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	74	76	2	≤ 10
Oxygen	21	21	0	≤ 10

Sample ID: 239-0614-0041

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	75	76	2	≤ 10
Oxygen	20	20	2	≤ 10

Sample ID: 239-0614-0042

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	76	76	1	≤ 10
Oxygen	20	20	1	≤ 10

Sample ID: 239-0614-00343

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	75	76	2	≤ 10
Oxygen	20	20	3	≤ 10

Sample ID: 239-0614-0044

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	75	76	1	≤ 10
Oxygen	20	20	1	≤ 10

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Table 2.8 (cont) Results of the Duplicate Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0045

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	74	75	1	≤ 10
Oxygen	20	20	2	≤ 10

Sample ID: 239-0614-0046

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	73	75	3	≤ 10
Oxygen	13	15	9	≤ 10

Sample ID: 239-0614-0047

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	76	74	2	≤ 10
Oxygen	21	20	5	≤ 10

Sample ID: 239-0614-0048

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	1.2	1.1	9	≤ 10
Oxygen	0.40	0.33	19	*

Sample ID: 239-0614-0025

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	77	78	2	≤ 10
Oxygen	22	22.0	3	≤ 10

Sample ID: 239-0614-0026

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	75	77	3	≤ 10
Oxygen	22	22	3	≤ 10

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Table 2.8 (cont) Results of the Duplicate Analysis for Nitrogen and Oxygen in Air
 WA # SERAS-239 Lee's Lane Landfill Site Investigation

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Sample ID: 239-0614-0027

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	78	80	3	≤ 10
Oxygen	22	23	4	≤ 10

Sample ID: 239-0614-0028

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	81	81	0	≤ 10
Oxygen	22	22	1	≤ 10

Sample ID: 239-0614-0033

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	78	79	1	≤ 10
Oxygen	21	21	2	≤ 10

Sample ID: 239-0614-0034

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	80	79	2	≤ 10
Oxygen	22	21	4	≤ 10

Sample ID: 239-0614-0035

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	81	80	1	≤ 10
Oxygen	21	21	1	≤ 10

Sample ID: 239-0614-0036

Analyte	Initial Analysis Percent	Duplicate Analysis Percent	RPD	QC Limits RPD
Nitrogen	80	81	2	≤ 10
Oxygen	21	22	5	≤ 10

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of the ERT/SERAS Laboratory



LOCKHEED MARTIN

Lockheed Martin Information Systems & Global Solutions (IS&GS - Civil)
Environmental Services SERAS
2890 Woodbridge Avenue, Building 209 Annex
Edison, NJ 08837-3679
Telephone: 732-321-4200, Facsimile: 732-494-4021

Contest Analytical
39 Spruce Street
East Long Meadow, MA
01028

Attn: Susan Burney/James Georgantas

18 June 2014

As per Lockheed Martin purchase order 4101435562, for Project 0239, please analyze::

Analysis/Method	Matrix	# of samples
Fixed Gases by EPA 3C: Methane, Carbon Dioxide, Carbon Monoxide, Oxygen, and Nitrogen from the same canister as TO-15.	Summa/Air	60
VOA/TO-15 for at 30 ppbv RL for <u>ALL</u> the compounds on the attached "SERAS" list. The seven highlighted compounds are of special interest: Benzene, 1,3-Butadiene, Carbon Tetrachloride, Chloroform, Tetrachloroethene, Trichloroethene, and Vinyl Chloride.	Summa/Air	60

Data package: Full level four documentation with .csv file. Units must be in ppbv and ug/m3.

The sampled summa canisters are expected to arrive at your laboratory on or about June 30th, 2014. Preliminary sample and QC result tables and a signed copy of our chain of custody must be sent to SERAS 10 business days after sample receipt. The complete data package is due 15 business days after receipt of the samples. The complete data package must include all items on the deliverables checklist. Please submit all reports concerning this project to **Misty Barkley at misty.barkley@lmco.com**.

The laboratory must provide documentation for individual summa canister and flow controller certification. The 60 summa canisters and preset orifices must arrive at the hotel in Kentucky in two batches: 40 summas by June 20th and 20 summas by June 23rd, 2014. The flow controllers should have 1/4 inch fittings.

Sincerely,

Jay Patel

Jay Patel
Analytical Support Chemist
Lockheed Martin / SERAS Project

cc. D. Mickunas
 D. Killeen
 J. Patel
 G. Depasquale
 A. DuBois

Compound List for 0-239

Compound	RL ppbv	RL µg/m3
1,1,1-Trichloroethane	0.0300	0.164
1,1,2,2-Tetrachloroethane	0.0300	0.206
1,1,2-Trichloroethane	0.0300	0.164
1,1-Dichloroethane	0.0300	0.121
1,1-Dichloroethene	0.0300	0.119
1,2,3-Trichloropropane	0.0300	0.181
1,2,4-Trimethylbenzene	0.0300	0.147
1,2-Dibromoethane	0.0300	0.231
1,2-Dichlorobenzene	0.0300	0.180
1,2-Dichloroethane	0.0300	0.121
1,2-Dichloropropane	0.0300	0.139
1,3,5-trimethylbenzene	0.0300	0.147
1,3-Butadiene	0.0300	0.0664
1,3-Dichlorobenzene	0.0300	0.180
1,4-Dichlorobenzene	0.0300	0.180
1,4-Dioxane	0.0300	0.108
2-Butanone	0.0300	0.0885
2-Hexanone	0.0300	0.123
Acetone	0.100	0.238
Benzene	0.0300	0.0958
Bromoform(Tribromomethane)	0.0300	0.310
Bromomethane	0.0300	0.117
Carbon Tetrachloride	0.0300	0.189
Chlorobenzene	0.0300	0.138
Chloroethane	0.0300	0.0792
Chloroform	0.0300	0.146
Chloromethane	0.0300	0.0620
cis-1,2-Dichloroethene	0.0300	0.119
cis-1,3-Dichloropropene	0.0300	0.137
Cyclohexane	0.0300	0.103
Dibromochloromethane	0.0300	0.201
Dichlorodifluoromethane	0.0300	0.148
Dichlorotetrafluoroethane	0.0300	0.210
Ethyl Acetate	0.0300	0.108
Ethylbenzene	0.0300	0.130
Ethyltoluene	0.0300	0.147

Heptane	0.0300	0.123
Hexane	0.0300	0.106
Isopropyl Alcohol	0.0300	0.0737
m&p-Xylene	0.0600	0.261
Methyl Isobutyl Ketone	0.0300	0.123
Methylene Chloride	0.0300	0.104
MTBE	0.0300	0.108
o-Xylene	0.0300	0.130
Propylene	0.0300	0.0516
Styrene	0.0300	0.128
Tetrachloroethene	0.0300	0.203
Tetrahydrofuran	0.0300	0.0885
Toluene	0.0300	0.113
trans-1,2-Dichloroethene	0.0300	0.119
trans-1,3-Dichloropropene	0.0300	0.136
Trichloroethene	0.0300	0.161
Trichlorofluoromethane	0.0300	0.169
Trichlorotrifluoroethane	0.0300	0.230
Vinyl Acetate	0.0300	0.106
Vinyl Chloride	0.0300	0.0767

WA# _____

Laboratory Report No. _____

Deliverable Checklist for GC/MS Analyses

**All the following information must be included in the data package.
(Please check all blanks and submit the list together with the report)**

Legible print on all pages of report, including instrument and raw data printouts. *To include all data on non bound three hole punched standard weight paper. Reports should also be paginated.*

- ____ Case narrative including the method numbers, any method modifications, all anomalies and problems (including reasons for manual integration peak integration).
- ____ Chain of custody (signed with date of receipt).
- ____ Sample extraction and preparation logs (including initial volume/weight, final volume, dilution factor, solvent and standard lot #'s and all re-extractions).
- ____ Formulations of the spike solutions (surrogate, calibration standards, LCS, matrix spike, tune and internal standards), including certifications, initial and final formulations, lot# with concentrations, expiration dates and volumes used.
- ____ Worksheet of % solid or % moisture.
- ____ Analysis logs for all instruments used including documentation of all std lot #'s used. (For VOA analysis, the sample size used for analysis must be clearly documented)
- ____ Tabulated sample and method blank results , solids based on dry weight (including the duplicate analysis results and a per sample Reporting Limit based on the lowest calibration std, taking into account dilutions, sample weight, extraction volumes, and % solids).

Tuning and Mass Calibration

(for all instruments used for analyses, dilutions, and initial/continuing calibrations)

- ____ Summary table _____ Ion chromatogram _____ Spectrum _____ Mass listing

Initial Calibration Data - in order by instrument, if more than one instrument used

- ____ Analysis logs including all lots #'s of tune and initial calibration standards
 - ____ Summary table of calibration avg. RF and %RSD results including regression equations (NOT forced through zero) for all analytes.
 - ____ Chromatograms for all calibration standards for all analytes requested.
 - ____ Quantitation reports for all calibration standards for all analytes requested.
- If the ICAL std. that the reporting limit is based on (lowest standard) is manually integrated then the analyst must manually review all sample analysis for the compound(s).

**Continuing Calibration Verification (CCV) Data - in order by instrument, if more than one instrument used
(continuing calibration for sample dilution should also be submitted)**

- ____ Analysis logs including all lots #'s of tune and CCV calibration standards
 - ____ Summary table of % difference of relative response factors or % recovery of CCV stds.
 - ____ Ion chromatograms
 - ____ Quantitation reports (including all areas for all manually integrated peaks)
 - ____ Internal standard area summary table for all Method Blanks, sample/dilution analyses, LCS and MS/MSDs
 - ____ All lots #'s of tune and CCV standards are documented.
- Printouts initiated by the analyst of all manual integrations with integration lines clearly identified.

Method Blank and Sample Data - in chronological order(for VOA, each 12-hour period, for each GC/MS system)

- Result summary table (including reporting limits) to three significant figures.
- Surrogate percent recovery and internal standard area summary table
- Ion Chromatograms
- Quantitation reports and target compound spectra, which should include:
 - Raw target compound spectra
 - Enhanced or background subtracted spectra
 - Laboratory generated target compound standard spectra
 - Printouts initialed by the analyst of all manual integrations with integration lines clearly identified.
- Tabulated results for Tentatively Identified Compounds (TIC), if applicable, including GC/MS library search spectra for each TIC.

Matrix Spike/Matrix Spike Duplicate Data (If required by the method or specifically requested)

- Tabulated spike recovery results formatted as follows:(Solids should be reported on dry weight basis)

Sample Result	Spike Added		Concentration		% Recovery MS	RPD	QC Limits	
	MS	MSD	MS	MSD			% Rec.	RPD

- Ion Chromatograms

- Quantitation reports

Electronic Data Deliverable

- Provide a pdf file for the entire data package.
- Provide electronic deliverable in ExCel or tab delimited file.
- Electronic compound list should be in the same order as hard copy report.

Column headers must be formatted as follows: Samp_No , Location, Sub_Location, Matrix, Analyte, Result, Result_Units, Result_Qualifier, Analytical_Method, Reporting_Limit, Reporting_Limit_Units, Analysis, Percent_Solids, WA#, QC_Type, Spike_Amount, Spike_Amount_Units, Date_Analyzed, Result_Type_Code, Percent_Recovery, Percent_Recovery_Limits, RPD, RPD_Limits, and QAFlag

Signature

Date

Page 1 of 1

USEPA

Date Shipped:
Carrier Name:
Airbill No:

14F1292

CHAIN OF CUSTODY RECORD

Site #: 239
Contact Name: Misty Barkley
Contact Phone: 732-321-4205

No: 4-062614-114121-0001

Cooler #:

Lab: Con-Test Analytical Laboratory
Lab Phone: 413-525-2332

Page 237 of 328

Lab #	Sample #	Location	Sub Location	Analyses	Matrix	Collected	Stop_ Tim e	Nu mb Co nt	Container	SUMMA #	Orifice D	Start Press ure	Stop Press ure (as read)	gauge notes	Lab Receipt Pressure
01	239-0614-0001	Unit 001	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	8:56:00 AM	1	Summa Canister	2211	3511	-30	-5	+3	-8.1
02	239-0614-0002	Unit 002	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	9:00:00 AM	1	Summa Canister	2160	3469	-30	-6.5	—	-8.1
03	239-0614-0003	Unit 003	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	9:15:00 AM	1	Summa Canister	2154	3454	-30	-7	—	-7.4
04	239-0614-0004	Unit 004	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	9:37:00 AM	1	Summa Canister	2208	3508	-30	-6	+1.5	-8.5

Special Instructions: Please analyze by TO-15 and EPA 3C

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
4/Analysis CJ		6/26/14	Paula RD	6/27/14	9:44						

Page 1 of 1

USEPA

Date Shipped: 14F1292
 Carrier Name: Misty Barkley
 Airbill No:

CHAIN OF CUSTODY RECORD

Site #: 239

Contact Name: Misty Barkley
 Contact Phone: 732-321-4205

No: 4-062614-114955-0002

Cooler #:

Lab: Con-Test Analytical Laboratory
 Lab Phone: 413-525-2332

Page 238 of 328

Lab #	Sample #	Location	Sub Location	Analyses	Matrix	Collected	Stop_Tim	Num Co nt	Container	SUMMA #	Orifice D	Start Press ure	Stop Press ure (as read)	gauge notes	Lab Receipt Pressur
05	239-0614-0005	Unit 005	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	9:42:00 AM	1	Summa Canister	2207	3507	-30	-10.5	—	-8.2
06	239-0614-0006	Unit 005	Ambient	VOCs/Fixed Gases	Air	6/25/2014	9:44:00 AM	1	Summa Canister	2170	3470	-30	-8	—	-8.9
07	239-0614-0007	Unit 006	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	10:32:00 AM	1	Summa Canister	2206	3506	-30	-8	—	-8.6
08	239-0614-0008	Unit 007	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	10:40:00 AM	1	Summa Canister	2186	3466	-30	-9	—	-10.3

Special Instructions: Please analyze by TO-15 and EPA 3C

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
4/Analysis	[Signature]	6/26/14	[Signature]	6/27/14	9:44						

Page 1 of 1

USEPA

Date Shipped:

Carrier Name:

Airbill No:

14F1292

CHAIN OF CUSTODY RECORD

Site #: 239

Contact Name: Misty Barkley

Contact Phone: 732-321-4205

No: 4-062614-115034-0003

Cooler #:

Lab: Con-Test Analytical Laboratory

Lab Phone: 413-525-2332

Page 239 of 328

Lab #	Sample #	Location	Sub Location	Analyses	Matrix	Collected	Stop_Tim e	Nu mb Co nt	Container	SUMMA #	Orifice D	Start Press ure	Stop Press ure (as read)	gauge notes	Lab Recpt Pressu
09	239-0614-0009	Unit 008	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	10:47:00 AM	1	Summa Canister	2161	3461	-30	-6	—	-7.2
10	239-0614-0010	Unit 007	Ambient	VOCs/Fixed Gases	Air	6/25/2014	10:42:00 AM	1	Summa Canister	2205	3505	-30	-7	+2	-9.1
11	239-0614-0011	Unit 009	Ambient	VOCs/Fixed Gases	Air	6/25/2014	10:55:00 AM	1	Summa Canister	2204	3504	-30	-6.5	+1	-8.4
12	239-0614-0012	Unit 010	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	11:04:00 AM	1	Summa Canister	2168	3468	-30	-11	—	-8.9
<i>RECD</i>															

Special Instructions: Please analyze by TO-15 and EPA 3C

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
4/Analyses	<i>Q</i>	6/26/14	<i>Paul R</i>	6/27/14	9:44						

Page 1 of 1

USEPA

Date Shipped:

Carrier Name:

Airbill No:

14F1292

CHAIN OF CUSTODY RECORD

Site #: 239

Contact Name: Misty Barkley

Contact Phone: 732-321-4205

No: 4-062614-115111-0004

Cooler #:

Lab: Con-Test Analytical Laboratory

Lab Phone: 413-525-2332

Page 240 of 328

Lab #	Sample #	Location	Sub Location	Analyses	Matrix	Collected	Stop Time	Nu mb Co nt	Container	SUMMA #	Orifice D	Start Press ure	Stop Press ure (as read)	gauge notes	Lab Receipt Pressure
13	239-0614-0013	Unit 011	SS	VOCs/Fixed Gases	Soil Gas	6/25/2014	11:12:00 AM	1	Summa Canister	2172	3472	-30	-7		-8.3
14	239-0614-0014	Unit 011	Ambient	VOCs/Fixed Gases	Air	6/25/2014	11:09:00 AM	1	Summa Canister	2202	3602	-30	-3.5		-6.9
15	239-0614-0015	Unit 012	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	11:41:00 AM	1	Summa Canister	2159	3458	-30	-6.5		-7.7
16	239-0614-0016	Unit 012	CS-Co	VOCs/Fixed Gases	Air	6/25/2014	11:41:00 AM	1	Summa Canister	2158	3458	-30	-7		-7.4
P															

Special Instructions: Please analyze by TO-15 and EPA 3C

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
4/Analysis	[Signature]	6-26-14	Misty Barkley	6-27-14	9:44						

Page 1 of 1

USEPA

Date Shipped:

Carrier Name:

Airbill No:

14F1292

CHAIN OF CUSTODY RECORD

Site #: 239

Contact Name: Misty Barkley

Contact Phone: 732-321-4205

No: 4-062614-115208-0005

Cooler #:

Lab: Con-Test Analytical Laboratory

Lab Phone: 413-525-2332

Lab #	Sample #	Location	Sub Location	Analyses	Matrix	Collected	Stop Time	Number Count	Container	SUMMA #	Orifice ID	Start Pressure	Stop Pressure (as read)	gauge notes	Lab receipt Pressure
17	239-0614-0017	Unit 012	Ambient	VOCs/Fixed Gases	Air	6/25/2014	11:43:00 AM	1	Summa Canister	2160	3460	-30	-5	+2	-7.5
18	239-0614-0018	Unit 013	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	11:53:00 AM	1	Summa Canister	2201	3501	-30	-8	-1	-7.3
19	239-0614-0019	Unit 013	Ambient	VOCs/Fixed Gases	Air	6/25/2014	11:50:00 AM	1	Summa Canister	2209	3509	-30	-2.5	+2	-4.9
20	239-0614-0020	Unit 014	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	11:59:00 AM	1	Summa Canister	2203	3503	-30	-6	+1	-7.1
<td data-kind="ghost"></td>															

Special Instructions: Please analyze by TO-15 and EPA 3C	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
4/Analysis	[Signature]	6/26/14	Paula R.	6-27-14	9:44						

Page 1 of 1

USEPA

Date Shipped:

Carrier Name:

Airbill No:

14F 1292

CHAIN OF CUSTODY RECORD

Site #: 239

Contact Name: Misty Barkley

Contact Phone: 732-321-4205

No: 4-062614-115243-0006

Cooler #:

Lab: Con-Test Analytical Laboratory

Lab Phone: 413-525-2332

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Lab #	Sample #	Location	Sub Location	Analyses	Matrix	Collected	Stop_Tim e	Nu mb Co nt	Container	SUMMA #	OrificeID	Start Press ure	Stop Press ure (as read)	gauge notes	Lab receipt Pressure
21	239-0614-0021	Unit 014	Ambient	VOCs/Fixed Gases	Air	6/25/2014	12:01:00 PM	1	Summa Canister	2157	3547	-30	-9	—	-9.8
22	239-0614-0022	Unit 002	Ambient	VOCs/Fixed Gases	Air	6/25/2014	12:08:00 PM	1	Summa Canister	2212	3512	-30	-7	+1	-8.6
23	239-0614-0023	Unit 003	Ambient	VOCs/Fixed Gases	Air	6/25/2014	12:12:00 PM	1	Summa Canister	2210	3510	-30	-10.5	OK	-9
24	239-0614-0024	Unit 015	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	2:07:00 PM	1	Summa Canister	2185 2183	3483	-30	-7	—	-8.1
<i>(ABD)</i>															

Special Instructions: Please analyze by TO-15 and EPA 3C

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Reinquished by	Date	Received by	Date	Time	Items/Reason	Reinquished By	Date	Received by	Date	Time
4 Analysis	<i>GJ</i>	6/26/14	<i>Paula</i>	6/27/14	9:44						

Page 1 of 1

USEPA

Date Shipped:
Carrier Name:
Aribit No:

14F1292

CHAIN OF CUSTODY RECORD

Site #: 239

Contact Name: Misty Barkley
Contact Phone: 732-321-4205

No: 4-062614-115400-0008

Cooler #:

Lab: Con-Test Analytical Laboratory
Lab Phone: 413-525-2332

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Lab #	Sample #	Location	Sub Location	Analyses	Matrix	Collected	Stop Time	Number Count	Container	SUMMA #	Official D	Start Pressure	Stop Pressure (as read)	Gauge notes	Lab Receipt Pressure
25	239-0614-0029	Unit 018	CS-Co	VOCs/Fixed Gases	Air	6/25/2014	2:24:00 PM	1	Summa Canister	2180	3490	-30	-6	—	-7.8
26	239-0614-0030	Unit 019	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	2:30:00 PM	1	Summa Canister	2155	3465	-30	-7	+1	-7.9
27	239-0614-0031	Unit 020	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	2:33:00 PM	1	Summa Canister	2181	3481	-30	-5.5	—	-8.2
28	239-0614-0032	Unit 021	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	2:40:00 PM	1	Summa Canister	2181	3491	-30	0	—	-1.1

Special Instructions: Please analyze by TO-15 and EPA 3C

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #
--

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
4 Analysis	<i>[Signature]</i>	6/26/14	<i>[Signature]</i>	6-27-14	9:44						

Page 1 of 1

USEPA

Date Shipped:
Carrier Name:
Airbill No:

14F1292

CHAIN OF CUSTODY RECORD

Site #: 239

Contact Name: Misty Barkley
Contact Phone: 732-321-4205

No: 4-062614-115509-0010

Cooler #:

Lab: Con-Test Analytical Laboratory
Lab Phone: 413-525-2332

Page 24 of 328

Lab #	Sample #	Location	Sub Location	Analyses	Matrix	Collected	Stop_Tim	Nu mb Co nt	Container	SUMMA #	Orifice D	Start Press ure	Stop Press ure (as read)	gauge notes	Lab receipt Pressure
29	239-0614-0037	Unit 024	Ambient	VOCs/Fixed Gases	Air	6/25/2014	3:30:00 PM	1	Summa Canister	2215	3515	-30	-9	+2	-8.7
30	239-0614-0038	Unit 025	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	3:34:00 PM	1	Summa Canister	2213	3513	-30	-7	—	-9.1
31	239-0614-0039	Unit 026	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	3:41:00 PM	1	Summa Canister	2216	3518	-30	-9	—	-8.4
30	239-0614-0040	Unit 027	SS	VOCs/Fixed Gases	Soil Gas	6/25/2014	3:48:00 PM	1	Summa Canister	2199	3499	-30	-6	+1.5	-7.6

Special Instructions: Please analyze by TO-15 and EPA 3C

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
4/Analyzer -	<i>[Signature]</i>	6/26/14	<i>Paul B.</i>	6/27/14	9:44						

Page 1 of 1

USEPA

Date Shipped:

Carrier Name:

Airbill No:

14K1292

CHAIN OF CUSTODY RECORD

Site #: 239

Contact Name: Misty Barkley

Contact Phone: 732-321-4205

No: 4-062614-115541-0011

Cooler #:

Lab: Con-Test Analytical Laboratory

Lab Phone: 413-525-2332

Page 245 of 328

Lab #	Sample #	Location	Sub Location	Analyses	Matrix	Collected	Stop_Time	Number Cont	Container	SUMMA #	Orifice D	Start Pressure	Stop Pressure (as read)	gauge notes	Lab Recept Pressure
33	239-0614-0041	Unit 028	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	4:08:00 PM	1	Summa Canister	2198	3498	-30	-6	+1	-8.2
34	239-0614-0042	Unit 028	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	4:11:00 PM	1	Summa Canister	2200	3500	-30	-5	+2	-6.9
35	239-0614-0043	Unit 030	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	4:15:00 PM	1	Summa Canister	2156	3456	-30	-9	—	-9.4
36	239-0614-0044	Unit 031	Crawl Space	VOCs/Fixed Gases	Air	6/26/2014	8:37:00 AM	1	Summa Canister	2189	3489	-30	-6	—	-8.4

Special Instructions: Please analyze by TO-15 and EPA 3C	SAMPLES TRANSFERRED FROM	
	CHAIN OF CUSTODY #	

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
4/Analysis	JR	6/26/14	Paula RG	6/27/14	9:44						

094

Page 1 of 1

USEPA

Date Shipped:

Carrier Name:

Airbill No:

14K1292

CHAIN OF CUSTODY RECORD

Site #: 239

Contact Name: Misty Barkley

Contact Phone: 732-321-4205

No: 4-062614-122338-0012

Cooler #:

Lab: Con-Test Analytical Laboratory

Lab Phone: 413-525-2332

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Lab #	Sample #	Location	Sub Location	Analyses	Matrix	Collected	Stop_Time	Nu mb Co nt	Container	SUMMA #	Orifice D	Start Press ure	Stop Press ure (as read)	gauge notes	Lab Receipt Pressur
37	239-0614-0045	Unit 031	Ambient	VOCs/Fixed Gases	Air	6/26/2014	8:39:00 AM	1	Summa Canister	2175	3475	-30	-9	—	-10.4
38	239-0614-0046	Unit 032	SS	VOCs/Fixed Gases	Soli Gas	6/26/2014	8:59:00 AM	1	Summa Canister	2163	3463	-30	-9.5	—	-8.7
39	239-0614-0047	Unit 032	Ambient	VOCs/Fixed Gases	Air	6/26/2014	9:00:00 AM	1	Summa Canister	2184	3489	-30	-8	—	-10.5
40	239-0614-0048	Trip		VOCs/Fixed Gases	Air	6/26/2014	12:20:00 PM	1	Summa Canister	2171	3471	-29	-29	—	-29
<i>(A01)</i>															
<i>✓</i>															

Special instructions: Please analyze by TO-15 and EPA 3C

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
<i>Analysis</i> <i>EZ</i>	<i>6/26/14 Paul S.</i>	<i>6-27-14</i>			<i>9:44</i>						

095

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USEPA

Date Shipped:

Carrier Name:

Airbill No:

14F1292

CHAIN OF CUSTODY RECORD

Site #: 239

Contact Name: Misty Barkley

Contact Phone: 732-321-4205

No: 4-062614-115328-0007

Cooler #:

Lab: Con-Test Analytical Laboratory

Lab Phone: 413-525-2332

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Lab #	Sample #	Location	Sub Location	Analytes	Matrix	Collected	Stop Time	Number Count	Container	SUMMA #	Orifice ID	Start Pressure	Stop Pressure (as read)	gauge notes	Lab Receipt Pressure
41	239-0614-0025	Unit 015	Ambient	VOCs/Fixed Gases	Air	6/25/2014	2:08:00 PM	1	Summa Canister	2192	3492	-30	-5	42	-7
42	239-0614-0026	Unit 016	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	2:14:00 PM	1	Summa Canister	2167	3467	-30	-8	—	-8.5
43	239-0614-0027	Unit 017	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	2:20:00 PM	1	Summa Canister	2176	3476	-30	-7.5	—	-4.8
44	239-0614-0028	Unit 018	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	2:24:00 PM	1	Summa Canister	2164	3464	-30	-9	—	-7.9

Special Instructions: Please analyze by TO-15 and EPA 3C

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
41 Analysis	O	6/26/14	Paula B.	6/30/14							

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USEPA

DateShipped:
CarrierName:
AirbillNo:

14K1292

CHAIN OF CUSTODY RECORD

Site #: 239
Contact Name: Misty Barkley
Contact Phone: 732-321-4205

No: 4-062614-115433-0009

Cooler #:
Lab: Con-Test Analytical Laboratory
Lab Phone: 413-525-2332

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Lab #	Sample #	Location	Sub Location	Analyses	Matrix	Collected	Stop_Time	Numb_Co nt	Container	SUMMA #	Orifice_D	Start_Press ure	Stop_Press ure (as read)	gauge notes	Lab Receipt Pressure
45	239-0614-0033	Unit 021	Ambient	VOCs/Fixed Gases	Air	6/25/2014	2:41:00 PM	1	Summa Canister	2177	3477	-30	-6	—	-8.4
46	239-0614-0034	Unit 022	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	2:48:00 PM	1	Summa Canister	2197	3497	-30	-7	+2	-8.7
47	239-0614-0035	Unit 023	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	2:50:00 PM	1	Summa Canister	2182	3482	-30	-7.5	—	-9.6
48	239-0614-0036	Unit 024	Crawl Space	VOCs/Fixed Gases	Air	6/25/2014	3:29:00 PM	1	Summa Canister	2214	3514	-30	-6	+1	-7.5

Special Instructions: Please analyze by TO-15 and EPA 3C	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
4 Analysis	[Signature]	6/26/14	[Signature]	6/30/14							

APPENDIX D
SERAS SUMMA Sampling Worksheets
Lee's Lane Landfill Site Investigation
October 2014



EPA/Environmental Response Team
Scientific, Engineering, Response and Analytical Services
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-W-09-031

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Air Sampling Work Sheet

Site: Lee's Lane Landfill

Sampler: Steffensen/Dubois

Date: 6/24/14 - 6/25/14

WA# 239

U.S. EPA/ERT WAM: Newhart/Mickau

SERAS Task Leader: Dubois

Sample #	239-0614-0001	-0002	-0003	-0004	-0005
Location	Unit 001	Unit 002	Unit 003	Unit 004	Unit 005
Sub-Location	Crawl space	Crawl space	Crawl space	Crawl space	CS
Summa #	2211	2169	2154	2208	2207
Orifice ID	3511	3469	3454	3508	3507
Start Pressure	-30	-30	-30	-30	-30
NIST Gauge S/N	N68836				
Flow Rate (Start)	2.9	3.1	3.0	2.9	2.9
Flow meter	FR US13A56022				
Analysis/Method	TB151m				
Time/Counter (Start)	6/24 0845	0907	0917	0958	1003
Time/Counter (Stop)	6/25 0856	0909	0915	0937	0942
Total Time			blank		
End Pressure	-5	-6.5	-7.0	-6	-10.5
NIST Gauge S/N	"+3"	blank sum Very cool when used	+1.5		blank

MET Station on Site?: Y / N

NOTE: Both NIST gauges are not

functioning properly during individual flow control X2

Unit 002 pushed tubing between insulation and a board -

Unit 004 used board b/c

good access

tubing attached to

access good but full of trash



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Air Sampling Work Sheet

Site: Tees Lane Landfill
Sampler: Steffenow/Dubois
Date: 6/24/04

WA# 239,
U.S. EPA/ERT WAM: Newhart/Melchor
SERAS Task Leader: Dubois

Sample #	239-0614-0004	-0007	-0008	-0009	-0010
Location	Unit 005	Unit 006	Unit 007	Unit 008	Unit 007
Sub-Location	AmB	CS	CS	CS	AmB
Summa #	2170	2206	2166	2161	2205
Orifice ID	3470	3506	3466	3461	3505
Start Pressure	-30	-30	-30	-30	-30
NIST Gauge S/N	N 48836				
Flow Rate (Start)	2.9	3.0	2.9	3.1	2.8
Flow meter	US13A56022				
Analysis/Method	TO15/3C				
Time/Counter (Start)	6/24/04				
Time/Counter (Stop)	1022	1030	1040	1045	1052
Total Time	426H 0944	1032	1040	1047	1042
End Pressure	-8	-9	-9	-6	-7
NIST Gauge S/N	blank	blank	blank	blank	" +2"

MET Station on Site?: Y / N

tubing



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Air Sampling Work Sheet

Site: Lees Lane Landfill
Sampler: Stellwagen/Dubois
Date: 6/24/14

WA# 239
U.S. EPA/ERT WAM: Gia Newhart/
SERAS Task Leader: Dubois Nuckles

Sample #	239-0614 -0011	-0012	-0013	-0014	-0015
Location	Unit 001	Unit 010	Unit 011	Unit 011	Unit 012
Sub-Location	AmB	CS	BAS-SS	AmB	CS
Summa #	2204	2168	2172	2202	2159
Orifice ID	3504	3468	3472	3502	3459
Start Pressure	-30	-30	-30	-30	-30
NIST Gauge S/N	N68835				
Flow Rate (Start)	3.1	3.0	3.0	3.2	3.1
Flow meter	US13A56022				
Analysis/Method	T015/3C				
Time/Counter (Start)	6/24/14 1102	1106	1117	1120	1134
Time/Counter (Stop)	1055	1104	1112	1109	1141
Total Time					
End Pressure	-6.5	-11	-7	-3.5	-6.5
NIST Gauge S/N	"+1"	Blank	1	"+3"	"+1"
MET Station on Site?: Y/N					
	Only AmB	Crash space	Get pic at plu		



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Air Sampling Work Sheet

Site: Lees Lane landfill
Sampler: Steffensen / Suboir
Date: 6/24/14

WA# 239
U.S. EPA/ERT WAM: Newark / Medema
SERAS Task Leader: Suboir

Sample #	<u>239-0614</u> <u>~ 6016</u>	<u>-0017</u>	<u>-0018</u>	<u>-0019</u>	<u>-0020</u>
Location	<u>Unit 012</u>	<u>Unit 012</u>	<u>Unit 013</u>	<u>Unit 013</u>	<u>Unit 014</u>
Sub-Location	<u>CS-CO</u>	<u>AmB</u>	<u>CS</u>	<u>AmB</u>	<u>CS</u>
Summa #	<u>2158</u>	<u>2160</u>	<u>2201</u>	<u>2209</u>	<u>2203</u>
Orifice ID	<u>3458</u>	<u>3460</u>	<u>3501</u>	<u>3509</u>	<u>3503</u>
Start Pressure	<u>-30</u>	<u>-30</u>	<u>-30</u>	<u>-30</u>	<u>-30</u>
NIST Gauge S/N	<u>N68835</u>	→			
Flow Rate (Start)	<u>3.1</u>	<u>3.2</u>	<u>3.1</u>	<u>3.6</u>	<u>3.2</u>
Flow meter	<u>US13A56022</u> →				
Analysis/Method	<u>T015/3C</u> →				
Time/Counter (Start)	<u>6/24/14</u>	<u>1141</u>	<u>1144</u>	<u>1148</u>	<u>1157</u>
Time/Counter (Stop)	<u>1141</u>	<u>1143</u>	<u>1153</u>	<u>1150</u>	<u>1159</u>
Total Time					
End Pressure	<u>-7</u>	<u>-5</u>	<u>-9</u>	<u>-25</u>	<u>-6</u>
NIST Gauge S/N	<u>W111</u>	<u>W12"</u>	<u>W-1"</u>	<u>W+2"</u>	<u>W+1"</u>

MET Station on Site?: Y / N



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Air Sampling Work Sheet

Site: Lies Lane Landfill
Sampler: Steffensen/Dubois
Date: 6/24/14

WA# 239

U.S. EPA/ERT WAM: Newark/
SERAS Task Leader: Dubois Mickunas

Sample #	<u>239-0614</u> <u>-0021</u>	<u>-0022</u>	<u>-0023</u>	<u>-0024</u>	<u>-0025</u>
Location	<u>Unit 014</u>	<u>Unit 002</u>	<u>Unit 003</u>	<u>Unit 015</u>	<u>Unit 015</u>
Sub-Location	<u>AMB</u>	<u>AMB</u>	<u>AMB</u>	<u>CS</u>	<u>AMB</u>
Summa #	<u>2157</u>	<u>2212</u>	<u>2210</u>	<u>2183</u>	<u>2192</u>
Orifice ID	<u>3547</u>	<u>3512</u>	<u>3510</u>	<u>3483</u>	<u>3492</u>
Start Pressure	<u>-30</u>	<u>-30</u>	<u>-30</u>	<u>-30</u>	<u>-30</u>
NIST Gauge S/N	<u>N68835</u>	→			
Flow Rate (Start)	<u>3.2</u>	<u>2.9</u>	<u>2.9</u>	<u>3.2</u>	<u>3.2</u>
Flow meter	<u>US13A56022</u>	→			
Analysis/Method					
Time/Counter (Start)	<u>1201</u>	<u>1214</u>	<u>1218</u>	<u>1400</u>	<u>1405</u>
Time/Counter (Stop)	<u>1201</u>	<u>1208</u>	<u>1212</u>	<u>1407</u>	<u>1408</u>
Total Time					
End Pressure	<u>-9</u>	<u>-7</u>	<u>-0.5</u>	<u>-7</u>	<u>-5</u>
NIST Gauge S/N	<u>blank</u>	<u>+1"</u>	<u>"OK goes to -20"</u>	<u>"blank"</u>	<u>+2"</u>

MET Station on Site?: Y / N



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Air Sampling Work Sheet

Site: LeesLaneLandfill
Sampler: Steffensen/Dubois
Date: 6/24/14 - 6/25/14

WA# 239

U.S. EPA/ERT WAM: Newhart/Murphy
SERAS Task Leader: Dubois

Sample #	-0026	-0027	-0028	-0029	-0030
Location	U16	U17	U18	U18	U19
Sub-Location	CS	CS	CS	CS-CO	CS
Summa #	2167	2176	2164	2190	2155
Orifice ID	3467	3476	3464	3491	3485
Start Pressure	-30	-30	-30	-30	-30
NIST Gauge S/N					
Flow Rate (Start)	3.1	3.0	3.0	3.2	3.1
Flow meter					
Analysis/Method					
Time/Counter (Start)	6/24/14 1419	1416	1424	1424	1434
Time/Counter (Stop)	6/25/14 1414	1420	1424	1424	1430
Total Time					
End Pressure	-8	-7.5	-9	-6	-7
NIST Gauge S/N	"blank"	"blank"	"blank"	"blank"	"+1"

MET Station on Site?: Y / N



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Air Sampling Work Sheet

Site: Lives Lane Landfill
Sampler: Steffensen/DuBois
Date: 6/24/14 - 6/25/14

WA# 539

U.S. EPA/ERT WAM: Newhurst/Auklum
SERAS Task Leader: DuBois

Sample #	-0031	-0032	-0033	-0034	-0035
Location	U20	U21	U21	U22	U23
Sub-Location	CS	CS	AMB	CS	CS
Summa #	2181	2191	2177	2197	2182
Orifice ID	3481	3491	3477	3497	3482
Start Pressure	-30	-30	-30	-30	-30
NIST Gauge S/N					
Flow Rate (Start)	3.3	3.2	3.0	3.1	3.3
Flow meter					
Analysis/Method					
Time/Counter (Start)	1446	1450	1456	1506	1517
Time/Counter (Stop)	1433	1440	1441	1448	1450
Total Time					
End Pressure	-5.5	0	-6	-7	-7.5
NIST Gauge S/N	"blank"	"blank"	"blank"	"+2"	"blank"
MET Station on Site?: Y / N					
	tube				tube



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Air Sampling Work Sheet

Site: Lees Lane Landfill
Sampler: Steffensen/Aubois
Date: 6/24/14 - 6/25/14

WA# 239

U.S. EPA/ERT WAM: Newhart/Mucklow
SERAS Task Leader: Aubois

Sample #	-0036	-0037	-0038	-0039	-0040
Location	U024	U024	U025	U026	U027
Sub-Location	CS	AmB	CS	CS	SS
Summa #	2514	2215	2213	2216	2199
Orifice ID	3514	3515	3513	3516	3499
Start Pressure	-30	-30	-30	-30	-30
NIST Gauge S/N					
Flow Rate (Start)	2.9	3.0	3.0	3.0	3.1
Flow meter					
Analysis/Method					
Time/Counter (Start)	1528	1532	1536	1544	1557
Time/Counter (Stop)	1529	1530	1534	1541	1548
Total Time					
End Pressure	-6	-9	-7	-9	-6
NIST Gauge S/N	"+1"	"+2"	blank	"blank"	"+1.5"
MET Station on Site?: Y/N	Y/N	Verify matched up	house open floors open	* Required port !!!	
				under construction post fire due to x-ed fitting	



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Air Sampling Work Sheet

Site: Lees Lane Landfill

Sampler: Steffensen/Dubois

Date: 6/24/14 - 6/25/14

WA# 239

U.S. EPA/ERT WAM: Newark/Picunuc

SERAS Task Leader: Dubois

Sample #	-0041 <u>U028</u>	-0042	-0043	-0044	-0045
Location	U028	U029	U030	U031	U031
Sub-Location	CS	CS	CS	CS	AmB
Summa #	298	3500↑	2156	2189	2175
Orifice ID	3498	2200↓	3456	3489	3475
Start Pressure	-30	-30	-30	-30	-30
NIST Gauge S/N					
Flow Rate (Start)	3.0	3.1	3.3	3.0	2.9
Flow meter					
Analysis/Method					
Time/Counter (Start)	6/24/14 1607	1611	1618	6/25/14 0842	0845
Time/Counter (Stop)	6/25/14 1608	1611	1615	0837	0839
Total Time					
End Pressure	-6	-5	-9	-6	-9
NIST Gauge S/N	"+1"	"+2"	blank	blank	blank
MET Station on Site?: Y / N	<p>PIC tomorrow</p>				



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Air Sampling Work Sheet

Site: LeesLane Landfill
Sampler: Steffensen/Dubois
Date: 6/25/14 - 6/26/14

WA# 239

U.S. EPA/ERT WAM: Newber/Hickuna
SERAS Task Leader: Dubois

Sample #	-0046	-0047	-0048	
Location	Unit 032	Unit 032	TRIP	
Sub-Location	SS	AMB	—	
Summa #	2163	2184	2171	
Orifice ID	3463	3484	3471	
Start Pressure	-30	-30	-29	
NIST Gauge S/N			on fire	
Flow Rate (Start)	3.1	3.2	—	
Flow meter			on fire.	
Analysis/Method	TO15/3C	—	→	
Time/Counter (Start)	6/25/14 0929	0934	6/26/14 12:20	
Time/Counter (Stop)	0859	0900	12:20	
Total Time				
End Pressure	-9.5	-8	-29	
NIST Gauge S/N	Blank	Blank	Blank	

MET Station on Site?: Y / N

APPENDIX E
CONFIDENTIAL – Unit ID to Address Key
Lee's Lane Landfill Site Investigation
October 2014

Unit ID	Address			Samples		Sample types
Unit 001	4411 Lees Lane	Louisville	Kentucky	CS	CS	Crawl Space
Unit 002	4417 Lees Lane	Louisville	Kentucky	CS+AMB	CS+AMB	Crawl Space and Ambient
Unit 003	4412 Lees Lane	Louisville	Kentucky	CS+AMB	AMB only	Ambient only
Unit 004	6506 Putman	Louisville	Kentucky	CS	SS+AMB	Sub-slab and Ambient
Unit 005	6508 Putman	Louisville	Kentucky	CS+AMB	SS	Sub-slab
Unit 006	6514 Putman	Louisville	Kentucky	CS		
Unit 007	6600 Putman	Louisville	Kentucky	CS+AMB		
Unit 008	6602 Putman	Louisville	Kentucky	CS		
Unit 009	6612 Putman	Louisville	Kentucky	AMB only		
Unit 010	6614 Putman	Louisville	Kentucky	CS		
Unit 011	6613 Putman	Louisville	Kentucky	SS+AMB		
Unit 012	6616 Putman	Louisville	Kentucky	CS+AMB		
Unit 013	6618 Putman	Louisville	Kentucky	CS+AMB		
Unit 014	6627 Putman	Louisville	Kentucky	CS+AMB		
Unit 015	4419 Wilmoth	Louisville	Kentucky	CS+AMB		
Unit 016	4416 Wilmoth	Louisville	Kentucky	CS		
Unit 017	4414 Wilmoth	Louisville	Kentucky	CS		
Unit 018	4417 Wilmoth	Louisville	Kentucky	CS		
Unit 019	4411 Wilmoth	Louisville	Kentucky	CS		
Unit 020	4408 Wilmoth	Louisville	Kentucky	CS		
Unit 021	4409 Wilmoth	Louisville	Kentucky	CS+AMB		
Unit 022	4405 Wilmoth	Louisville	Kentucky	CS		
Unit 023	4402 Wilmoth	Louisville	Kentucky	CS		
Unit 024	4431 Wilshire	Louisville	Kentucky	CS+AMB		
Unit 025	4428 Wilshire	Louisville	Kentucky	CS		
Unit 026	4427 Wilshire	Louisville	Kentucky	CS		
Unit 027	4401 Wilmoth	Louisville	Kentucky	SS		
Unit 028	4419 Wilshire	Louisville	Kentucky	CS		
Unit 029	4416 Wilshire	Louisville	Kentucky	CS		
Unit 030	4423 Wilshire	Louisville	Kentucky	CS		
Unit 031	4429 Wilshire	Louisville	Kentucky	CS+AMB		
Unit 032	6502 Putman	Louisville	Kentucky	SS		